

<110> INCYTE CORPORATION; ELLIOTT, Vicki S.; KHARE, Reena; RICHARDSON, Thomas W.; MARQUIS, Joseph P.; SWARNAKAR, Anita; HAFALIAL, April J.A.; BECHA, Shanya D.; CHAWLA, Narinder K.; BAUGHN, Mariah R.; LEE, Soo Yeun; TRAN, Uyen K.; YUE, Henry; NGUYEN, Dannie B.; THORNTON, Michael B.; GURURAJAN, Rajagopal; GANDHI, Ameena R.; LU, Yan; YAO, Monique G.; LI, Joana X.; LUO, Wen; LEE, Ernestine A.; FORSYTHE, Ian J.; ISON, Craig H.; WILSON, Amy D.; JIN, Pei

<120> KINASES AND PHOSPHATASES

<130> PF-1506 PCT

<140> To Be Assigned

<141> Herewith

<150> US 60/467,491

<151> 2003-04-30

<150> US 60/469,441

<151> 2003-05-09

<150> US 60/476,408

<151> 2003-06-05

<150> US 60/494,656

<151> 2003-08-12

<150> US 60/524,415

<151> 2003-11-20

<150> US 60/528,750

<151> 2003-12-10

<160> 86

<170> PERL Program

<210> 1

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7517831CD1

<400> 1

Met	Gly	Cys	Gly	Cys	Ser	Ser	His	Pro	Glu	Asp	Asp	Trp	Met	Glu
1					5				10					15
Asn	Ile	Asp	Val	Cys	Glu	Asn	Cys	His	Tyr	Pro	Ile	Val	Pro	Leu
				20					25					30
Asp	Gly	Lys	Gly	Thr	Leu	Leu	Ile	Arg	Asn	Gly	Ser	Glu	Thr	Thr
				35					40					45
Trp	Leu	Ser	Leu	Cys	Thr	Ala	Met	Ser	Pro	Leu	Thr	Thr	Glu	Ile
				50					55					60
Trp	Ala	Leu	Arg	Arg	Gly	Asn	Ser	Ser	Ala	Ser	Trp	Ser	Arg	Ala
				65					70					75
Ala	Ser	Gly	Gly	Arg	Arg	Ser	Pro							
				80										

<210> 2
 <211> 292
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7520272CD1

<400> 2

Met	Ala	Asp	Gln	Ala	Pro	Phe	Asp	Thr	Asp	Val	Asn	Thr	Leu	Thr
1														15
Arg	Phe	Val	Met	Glu	Glu	Gly	Arg	Lys	Ala	Arg	Gly	Thr	Gly	Glu
														30
Leu	Thr	Gln	Leu	Leu	Asn	Ser	Leu	Cys	Thr	Ala	Val	Lys	Ala	Ile
														45
Ser	Ser	Ala	Val	Arg	Lys	Ala	Gly	Ile	Ala	His	Leu	Tyr	Gly	Ile
														60
Ala	Gly	Ser	Thr	Asn	Val	Thr	Gly	Asp	Gln	Val	Lys	Lys	Leu	Asp
														75
Val	Leu	Ser	Asn	Asp	Leu	Val	Met	Asn	Met	Leu	Lys	Ser	Ser	Phe
														90
Ala	Thr	Cys	Val	Leu	Val	Ser	Glu	Glu	Asp	Lys	His	Ala	Ile	Ile
														105
Val	Glu	Pro	Glu	Lys	Arg	Gly	Lys	Tyr	Val	Val	Cys	Phe	Asp	Pro
														120
Leu	Asp	Gly	Ser	Ser	Asn	Ile	Asp	Cys	Leu	Val	Ser	Val	Gly	Thr
														135
Ile	Phe	Gly	Ile	Tyr	Arg	Lys	Lys	Ser	Thr	Asp	Glu	Pro	Ser	Glu
														150
Lys	Asp	Ala	Leu	Gln	Pro	Gly	Arg	Asn	Leu	Val	Ala	Ala	Gly	Tyr
														165
Ala	Leu	Tyr	Gly	Ser	Ala	Thr	Met	Leu	Val	Leu	Ala	Met	Asp	Cys
														180
Gly	Val	Asn	Cys	Phe	Met	Leu	Asp	Pro	Asp	Asn	Ser	Ala	Pro	Tyr
														195
Gly	Ala	Arg	Tyr	Val	Gly	Ser	Met	Val	Ala	Asp	Val	His	Arg	Thr
														210
Leu	Val	Tyr	Gly	Gly	Ile	Phe	Leu	Tyr	Pro	Ala	Asn	Lys	Ser	
														225
Pro	Asn	Gly	Lys	Leu	Arg	Leu	Leu	Tyr	Glu	Cys	Asn	Pro	Met	Ala
														240
Tyr	Val	Met	Glu	Lys	Ala	Gly	Gly	Met	Ala	Thr	Thr	Gly	Lys	Glu
														255
Ala	Val	Leu	Asp	Val	Ile	Pro	Thr	Asp	Ile	His	Gln	Arg	Ala	Pro
														270
Val	Ile	Leu	Gly	Ser	Pro	Asp	Asp	Val	Leu	Glu	Phe	Leu	Lys	Val
														285
Tyr	Glu	Lys	His	Ser	Ala	Gln								
														290

<210> 3
 <211> 434
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7521279CD1

<400> 3

Met	Ala	Ser	Pro	Arg	Glu	Leu	Thr	Gln	Asn	Pro	Leu	Lys	Lys	Ile
1														15
Trp	Met	Pro	Tyr	Ser	Asn	Gly	Arg	Pro	Ala	Leu	His	Ala	Cys	Gln

20	25	30
Arg Gly Val Cys Met Thr Asn Cys Pro Thr	Leu Ile Val Met Val	
35	40	45
Gly Leu Pro Ala Arg Gly Lys Thr Tyr Ile	Ser Lys Lys Leu Thr	
50	55	60
Arg Tyr Leu Asn Trp Ile Gly Val Pro Thr	Arg Glu Phe Asn Val	
65	70	75
Gly Gln Tyr Arg Arg Asp Val Val Lys Thr	Tyr Lys Ser Phe Glu	
80	85	90
Phe Phe Leu Pro Asp Asn Glu Glu Gly	Leu Lys Ile Arg Lys Gln	
95	100	105
Cys Ala Leu Ala Ala Leu Arg Asp Val Arg	Arg Phe Leu Ser Glu	
110	115	120
Glu Gly Gly His Val Ala Val Phe Asp Ala	Thr Asn Thr Thr Arg	
125	130	135
Glu Arg Arg Ala Thr Ile Phe Asn Phe	Gly Glu Gln Asn Gly Tyr	
140	145	150
Lys Thr Phe Phe Val Glu Ser Ile Cys Val	Asp Pro Glu Val Ile	
155	160	165
Ala Ala Asn Ile Val Gln Val Lys Leu	Gly Ser Pro Asp Tyr Val	
170	175	180
Asn Arg Asp Ser Asp Glu Ala Thr Glu	Asp Phe Met Arg Arg Ile	
185	190	195
Glu Cys Tyr Glu Asn Ser Tyr Glu Ser	Leu Asp Glu Asp Leu Asp	
200	205	210
Arg Asp Leu Ser Tyr Ile Lys Ile Met	Asp Val Gly Gln Ser Tyr	
215	220	225
Val Val Asn Arg Val Ala Asp His Ile	Gln Ser Arg Ile Val Tyr	
230	235	240
Tyr Leu Met Asn Ile His Val Thr Pro	Arg Ser Ile Tyr Leu Cys	
245	250	255
Arg His Gly Glu Ser Glu Leu Asn Leu	Lys Gly Arg Ile Gly Gly	
260	265	270
Asp Pro Gly Leu Ser Pro Arg Gly Arg	Glu Phe Ala Lys Ser Leu	
275	280	285
Ala Gln Phe Ile Ser Asp Gln Asn Ile	Lys Asp Leu Lys Val Trp	
290	295	300
Thr Ser Gln Met Lys Arg Thr Ile Gln	Thr Ala Glu Ala Leu Gly	
305	310	315
Val Pro Tyr Glu Gln Trp Lys Val Leu	Asn Glu Ile Asp Ala Ser	
320	325	330
Tyr Glu Asp Leu Val Gln Arg Leu Glu	Pro Val Ile Met Glu Leu	
335	340	345
Glu Arg Gln Glu Asn Val Leu Val Ile	Cys His Gln Ala Val Met	
350	355	360
Arg Cys Leu Leu Ala Tyr Phe Leu Asp	Lys Ala Ala Glu Gln Leu	
365	370	375
Pro Tyr Leu Lys Cys Pro Leu His Thr	Val Leu Lys Leu Thr Pro	
380	385	390
Val Ala Tyr Gly Cys Lys Val Glu Ser	Ile Phe Leu Asn Val Ala	
395	400	405
Ala Val Asn Thr His Arg Asp Arg Pro	Gln Asn Val Asp Ile Ser	
410	415	420
Arg Pro Pro Glu Glu Ala Leu Val Thr	Val Pro Ala His Gln	
425	430	

<210> 4
 <211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7523965CD1

<400> 4

Met	Ala	Ala	Leu	Tyr	Arg	Pro	Gly	Leu	Arg	Leu	Asn	Trp	His	Gly
1			5					10					15	
Leu	Ser	Pro	Leu	Gly	Trp	Pro	Ser	Cys	Arg	Ser	Ile	Gln	Thr	Leu
				20				25					30	
Arg	Val	Leu	Ser	Gly	Asp	Leu	Gly	Gln	Leu	Pro	Thr	Gly	Ile	Arg
				35				40					45	
Asp	Phe	Val	Glu	His	Ser	Ala	Arg	Leu	Cys	Gln	Pro	Glu	Gly	Ile
				50				55					60	
His	Ile	Cys	Asp	Gly	Thr	Glu	Ala	Glu	Asn	Thr	Ala	Thr	Leu	Thr
				65				70					75	
Leu	Leu	Glu	Gln	Gln	Gly	Leu	Ile	Arg	Lys	Leu	Pro	Lys	Tyr	Asn
				80				85					90	
Asn	Cys	Trp	Leu	Ala	Arg	Thr	Asp	Pro	Lys	Asp	Val	Ala	Arg	Val
				95				100					105	
Glu	Ser	Lys	Thr	Val	Ile	Val	Thr	Pro	Ser	Gln	Arg	Asp	Thr	Val
				110				115					120	
Pro	Leu	Pro	Pro	Gly	Gly	Ala	Arg	Gly	Gln	Leu	Gly	Asn	Trp	Met
				125				130					135	
Ser	Pro	Ala	Asp	Phe	Gln	Arg	Ala	Val	Asp	Glu	Arg	Phe	Pro	Gly
				140				145					150	
Cys	Met	Gln	Gly	Arg	Thr	Met	Tyr	Val	Leu	Pro	Phe	Ser	Met	Gly
				155				160					165	
Pro	Val	Gly	Ser	Pro	Leu	Ser	Arg	Ile	Gly	Val	Gln	Leu	Thr	Asp
				170				175					180	
Ser	Ala	Tyr	Val	Val	Ala	Ser	Met	Arg	Ile	Met	Thr	Arg	Leu	Gly
				185				190					195	
Thr	Pro	Val	Leu	Gln	Ala	Leu	Gly	Asp	Gly	Asp	Phe	Val	Lys	Cys
				200				205					210	
Leu	His	Ser	Val	Gly	Gln	Pro	Leu	Thr	Gly	Gln	Asp	Pro	Gly	His
				215				220					225	
His	Gln	Pro	Cys	Arg	Glu	Glu	Ala	Leu	Cys	Gly	Ser	Arg	Leu	Pro
				230				235					240	

<210> 5

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524016CD1

<400> 5

Met	Glu	Glu	Lys	Thr	Ser	Arg	Ile	Lys	Ala	Ser	Ile	Pro	Gln	Phe
1			5					10					15	
Thr	Asn	Ser	Pro	Thr	Met	Val	Ile	Met	Val	Gly	Leu	Pro	Ala	Arg
				20				25					30	
Gly	Lys	Thr	Tyr	Ile	Ser	Thr	Lys	Leu	Thr	Arg	Tyr	Leu	Asn	Trp
				35				40					45	
Ile	Gly	Thr	Pro	Thr	Lys	Val	Phe	Asn	Leu	Gly	Gln	Tyr	Arg	Arg
				50				55					60	
Glu	Ala	Val	Ser	Tyr	Lys	Asn	Tyr	Glu	Phe	Phe	Leu	Pro	Asp	Asn
				65				70					75	
Met	Glu	Ala	Leu	Gln	Ile	Arg	Lys	Gln	Cys	Ala	Leu	Ala	Ala	Leu
				80				85					90	
Lys	Asp	Val	His	Asn	Tyr	Leu	Ser	His	Glu	Glu	Gly	His	Val	Ala
				95				100					105	
Val	Phe	Asp	Ala	Thr	Asn	Thr	Thr	Arg	Glu	Arg	Arg	Ser	Leu	Ile
				110				115					120	
Leu	Gln	Phe	Ala	Lys	Glu	His	Gly	Tyr	Lys	Val	Phe	Phe	Ile	Glu
				125				130					135	
Ser	Ile	Cys	Asn	Asp	Pro	Gly	Ile	Ile	Ala	Glu	Asn	Ile	Arg	Gln

140	145	150
Val Lys Leu Gly Ser Pro Asp Tyr Ile Asp Cys Asp Arg Glu	Lys	
155	160	165
Val Leu Glu Asp Phe Leu Lys Arg Ile Glu Cys Tyr Glu Val	Asn	
170	175	180
Tyr Gln Pro Leu Asp Glu Glu Leu Asp Arg Ser Ser Thr Trp	Ala	
185	190	195
His Ala Thr Trp		

<210> 6
<211> 406
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524680CD1

<400> 6

Met Glu Glu Lys Thr Ser Arg Ile Lys Val Phe Asn Leu Gly Gln			
1	5	10	15
Tyr Arg Arg Glu Ala Val Ser Tyr Lys Asn Tyr Glu Phe Phe Leu			
20	25		30
Pro Asp Asn Met Glu Ala Leu Gln Ile Arg Lys Gln Cys Ala Leu			
35	40		45
Ala Ala Leu Lys Asp Val His Asn Tyr Leu Ser His Glu Glu Gly			
50	55		60
His Val Ala Val Phe Asp Ala Thr Asn Thr Thr Arg Glu Arg Arg			
65	70		75
Ser Leu Ile Leu Gln Phe Ala Lys Glu His Gly Tyr Lys Val Phe			
80	85		90
Phe Ile Glu Ser Ile Cys Asn Asp Pro Gly Ile Ile Ala Glu Asn			
95	100		105
Ile Arg Gln Val Lys Leu Gly Ser Pro Asp Tyr Ile Asp Cys Asp			
110	115		120
Arg Glu Lys Val Leu Glu Asp Phe Leu Lys Arg Ile Glu Cys Tyr			
125	130		135
Glu Val Asn Tyr Gln Pro Leu Asp Glu Glu Leu Asp Ser His Leu			
140	145		150
Ser Tyr Ile Lys Ile Phe Asp Val Gly Thr Arg Tyr Met Val Asn			
155	160		165
Arg Val Gln Asp His Ile Gln Ser Arg Thr Val Tyr Tyr Leu Met			
170	175		180
Asn Ile His Val Thr Pro Arg Ser Ile Tyr Leu Cys Arg His Gly			
185	190		195
Glu Ser Glu Leu Asn Ile Arg Gly Arg Ile Gly Gly Asp Ser Gly			
200	205		210
Leu Ser Val Arg Gly Lys Gln Tyr Ala Tyr Ala Leu Ala Asn Phe			
215	220		225
Ile Gln Ser Gln Gly Ile Ser Ser Leu Lys Val Trp Thr Ser His			
230	235		240
Met Lys Arg Thr Ile Gln Thr Ala Glu Ala Leu Gly Val Pro Tyr			
245	250		255
Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp Ala Gly Val Cys Glu			
260	265		270
Glu Met Thr Tyr Glu Glu Ile Gln Glu His Tyr Pro Glu Glu Phe			
275	280		285
Ala Leu Arg Asp Gln Asp Lys Tyr Arg Tyr Arg Tyr Pro Lys Gly			
290	295		300
Glu Ser Tyr Glu Asp Leu Val Gln Arg Leu Glu Pro Val Ile Met			
305	310		315
Glu Leu Glu Arg Gln Glu Asn Val Leu Val Ile Cys His Gln Ala			
320	325		330

Val Met Arg Cys Leu Leu Ala Tyr Phe Leu Asp Lys Ser Ser Asp
 335 340 345
 Glu Leu Pro Tyr Leu Lys Cys Pro Leu His Thr Val Leu Lys Leu
 350 355 360
 Thr Pro Val Ala Tyr Gly Cys Lys Val Glu Ser Ile Tyr Leu Asn
 365 370 375
 Val Glu Thr Val Asn Thr His Arg Glu Lys Pro Glu Asn Val Asp
 380 385 390
 Ile Thr Arg Glu Pro Glu Glu Ala Leu Asp Thr Val Pro Ala His
 395 400 405
 Tyr

<210> 7
 <211> 426
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524757CD1

<400> 7
 Met Glu Glu Lys Thr Ser Arg Ile Lys Ala Ser Ile Pro Gln Phe
 1 5 10 15
 Thr Asn Ser Pro Thr Met Val Ile Met Val Gly Leu Pro Ala Arg
 20 25 30
 Gly Lys Thr Tyr Ile Ser Thr Lys Leu Thr Arg Tyr Leu Asn Trp
 35 40 45
 Ile Gly Thr Pro Thr Lys Asp Asn Met Glu Ala Leu Gln Ile Arg
 50 55 60
 Lys Gln Cys Ala Leu Ala Ala Leu Lys Asp Val His Asn Tyr Leu
 65 70 75
 Ser His Glu Glu Gly His Val Ala Val Phe Asp Ala Thr Asn Thr
 80 85 90
 Thr Arg Glu Arg Arg Ser Leu Ile Leu Gln Phe Ala Lys Glu His
 95 100 105
 Gly Tyr Lys Val Phe Phe Ile Glu Ser Ile Cys Asn Asp Pro Gly
 110 115 120
 Ile Ile Ala Glu Asn Ile Arg Gln Val Lys Leu Gly Ser Pro Asp
 125 130 135
 Tyr Ile Asp Cys Asp Arg Glu Lys Val Leu Glu Asp Phe Leu Lys
 140 145 150
 Arg Ile Glu Cys Tyr Glu Val Asn Tyr Gln Pro Leu Asp Glu Glu
 155 160 165
 Leu Asp Ser His Leu Ser Tyr Ile Lys Ile Phe Asp Val Gly Thr
 170 175 180
 Arg Tyr Met Val Asn Arg Val Gln Asp His Ile Gln Ser Arg Thr
 185 190 195
 Val Tyr Tyr Leu Met Asn Ile His Val Thr Pro Arg Ser Ile Tyr
 200 205 210
 Leu Cys Arg His Gly Glu Ser Glu Leu Asn Ile Arg Gly Arg Ile
 215 220 225
 Gly Gly Asp Ser Gly Leu Ser Val Arg Gly Lys Gln Tyr Ala Tyr
 230 235 240
 Ala Leu Ala Asn Phe Ile Gln Ser Gln Gly Ile Ser Ser Leu Lys
 245 250 255
 Val Trp Thr Ser His Met Lys Arg Thr Ile Gln Thr Ala Glu Ala
 260 265 270
 Leu Gly Val Pro Tyr Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp
 275 280 285
 Ala Gly Val Cys Glu Glu Met Thr Tyr Glu Glu Ile Arg Glu His
 290 295 300
 Tyr Pro Glu Glu Phe Ala Leu Arg Asp Gln Asp Lys Tyr Arg Tyr

305	310	315
Arg Tyr Pro Lys Gly Glu Ser Tyr Glu	Asp Leu Val Gln Arg	Leu
320	325	330
Glu Pro Val Ile Met Glu Leu Glu Arg	Gln Glu Asn Val	Leu Val
335	340	345
Ile Cys His Gln Ala Val Met Arg Cys	Leu Leu Ala Tyr	Phe Leu
350	355	360
Asp Lys Ser Ser Asp Glu Leu Pro Tyr	Leu Lys Cys Pro	Leu His
365	370	375
Thr Val Leu Lys Leu Thr Pro Val Ala	Tyr Gly Cys Lys	Val Glu
380	385	390
Ser Ile Tyr Leu Asn Val Glu Ala Val	Asn Thr His Arg	Glu Lys
395	400	405
Pro Glu Asn Val Asp Ile Thr Arg Glu	Pro Glu Glu Ala	Leu Asp
410	415	420
Thr Val Pro Ala His Tyr		
425		

<210> 8

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516229CD1

<400> 8

Met Ala Thr Pro Gly Asn Leu Gly Ser Ser Val	Leu Ala Ser Lys	
1 5	10	15
Thr Lys Thr Lys Lys Lys His Phe Val Ala	Gln Lys Val Lys Leu	
20	25	30
Phe Arg Ala Ser Asp Pro Leu Leu Ser Val	Leu Met Trp Gly Val	
35	40	45
Asn His Ser Ile Asn Glu Leu Ser His Val	Gln Ile Pro Val Met	
50	55	60
Leu Met Pro Asp Asp Phe Lys Ala Tyr Ser	Lys Ile Lys Val Asp	
65	70	75
Asn His Leu Phe Asn Lys Glu Asn Met Pro	Ser His Phe Lys Phe	
80	85	90
Lys Glu Tyr Cys Pro Met Val Phe Arg Asn	Leu Arg Glu Arg Phe	
95	100	105
Gly Ile Asp Asp Gln Asp Phe Gln Tyr Ile	Val Glu Cys His Gly	
110	115	120
Ile Thr Leu Leu Pro Gln Phe Leu Gly	Met Tyr Arg Leu Asn Val	
125	130	135
Asp Gly Val Glu Ile Tyr Val Ile Val	Thr Arg Asn Val Phe Ser	
140	145	150
His Arg Leu Ser Val Tyr Arg Lys Tyr	Asp Leu Lys Gly Ser Thr	
155	160	165
Val Ala Arg Glu Ala Ser Asp Lys Glu	Lys Ala Lys Glu Leu Pro	
170	175	180
Thr Leu Lys Asp Asn Asp Phe Ile Asn	Glu Gly Gln Lys Ile Tyr	
185	190	195
Ile Asp Asp Asn Asn Lys Lys Val Phe	Leu Glu Lys Leu Lys Lys	
200	205	210
Asp Val Glu Phe Leu Ala Gln Leu Lys	Leu Met Asp Tyr Ser Leu	
215	220	225
Leu Val Gly Ile His Asp Val Glu Arg Ala	Glu Gln Glu Glu Val	
230	235	240
Glu Cys Glu Glu Asn Asp Gly Glu Glu	Glu Gly Glu Ser Asp Gly	
245	250	255
Thr His Pro Val Gly Thr Pro Pro Asp Ser	Pro Gly Asn Thr Leu	
260	265	270

Asn	Ser	Ser	Pro	Pro	Leu	Ala	Pro	Gly	Glu	Phe	Asp	Pro	Asn	Ile
				275					280					285
Asp	Val	Tyr	Gly	Ile	Lys	Cys	His	Glu	Asn	Ser	Pro	Arg	Lys	Glu
				290					295					300
Val	Tyr	Phe	Met	Ala	Ile	Ile	Asp	Ile	Leu	Thr	His	Tyr	Asp	Ala
				305					310					315
Lys	Lys	Lys	Ala	Ala	His	Ala	Ala	Lys	Thr	Val	Lys	His	Gly	Ala
				320					325					330
Gly	Ala	Glu	Ile	Ser	Thr	Val	Asn	Pro	Glu	Gln	Tyr	Ser	Lys	Arg
				335					340					345
Phe	Leu	Asp	Phe	Ile	Gly	His	Ile	Leu	Thr					
				350					355					

<210> 9

<211> 543

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7516525CD1

<400> 9

Met	Glu	Gly	Gly	Pro	Ala	Val	Cys	Cys	Gln	Asp	Pro	Arg	Ala	Glu
1				5					10					15
Leu	Val	Glu	Arg	Val	Ala	Ala	Ile	Asp	Val	Thr	His	Leu	Glu	Glu
				20					25					30
Ala	Asp	Gly	Gly	Pro	Glu	Pro	Thr	Arg	Asn	Gly	Val	Asp	Pro	Pro
				35					40					45
Pro	Arg	Ala	Arg	Ala	Ala	Ser	Val	Ile	Pro	Gly	Ser	Thr	Ser	Arg
				50					55					60
Leu	Leu	Pro	Ala	Arg	Pro	Ser	Leu	Ser	Ala	Arg	Lys	Leu	Ser	Leu
				65					70					75
Gln	Glu	Arg	Pro	Ala	Gly	Ser	Tyr	Leu	Glu	Ala	Gln	Ala	Gly	Pro
				80					85					90
Tyr	Ala	Thr	Gly	Pro	Ala	Ser	His	Ile	Ser	Pro	Arg	Ala	Trp	Arg
				95					100					105
Arg	Pro	Thr	Ile	Glu	Ser	His	His	Val	Ala	Ile	Ser	Asp	Ala	Glu
				110					115					120
Asp	Cys	Val	Gln	Leu	Asn	Gln	Tyr	Lys	Leu	Gln	Ser	Glu	Ile	Gly
				125					130					135
Lys	Gly	Ala	Tyr	Gly	Val	Val	Arg	Pro	Ala	Tyr	Asn	Glu	Ser	Glu
				140					145					150
Asp	Arg	His	Tyr	Ala	Met	Lys	Val	Leu	Ser	Lys	Lys	Lys	Leu	Leu
				155					160					165
Lys	Gln	Tyr	Gly	Phe	Pro	Arg	Arg	Pro	Pro	Pro	Arg	Gly	Ser	Gln
				170					175					180
Ala	Ala	Gln	Gly	Pro	Ala	Lys	Gln	Leu	Leu	Pro	Leu	Glu	Arg	
				185					190					195
Val	Tyr	Gln	Glu	Ile	Ala	Ile	Leu	Lys	Lys	Leu	Asp	His	Val	Asn
				200					205					210
Val	Val	Lys	Leu	Ile	Glu	Val	Leu	Asp	Asp	Pro	Ala	Glu	Asp	Asn
				215					220					225
Leu	Tyr	Leu	Ala	Leu	Gln	Asn	Gln	Ala	Gln	Asn	Ile	Gln	Leu	Asp
				230					235					240
Ser	Thr	Asn	Ile	Ala	Lys	Pro	His	Ser	Leu	Leu	Pro	Ser	Glu	Gln
				245					250					255
Gln	Asp	Ser	Gly	Ser	Thr	Trp	Ala	Ala	Arg	Ser	Val	Phe	Asp	Leu
				260					265					270
Leu	Arg	Lys	Gly	Pro	Val	Met	Glu	Val	Pro	Cys	Asp	Lys	Pro	Phe
				275					280					285
Ser	Glu	Glu	Gln	Ala	Arg	Leu	Tyr	Leu	Arg	Asp	Val	Ile	Leu	Gly
				290					295					300
Leu	Glu	Tyr	Leu	His	Cys	Gln	Lys	Ile	Val	His	Arg	Asp	Ile	Lys

305	310	315
Pro Ser Asn Leu Leu Leu Gly Asp Asp	Gly His Val Lys Ile Ala	
320	325	330
Asp Phe Gly Val Ser Asn Gln Phe Glu	Gly Asn Asp Ala Gln	Leu
335	340	345
Ser Ser Thr Ala Gly Thr Pro Ala Phe	Met Ala Pro Glu Ala	Ile
350	355	360
Ser Asp Ser Gly Gln Ser Phe Ser Gly	Lys Ala Leu Asp Val	Trp
365	370	375
Ala Thr Gly Val Thr Leu Tyr Cys Phe	Val Tyr Gly Lys Cys	Pro
380	385	390
Phe Ile Asp Asp Phe Ile Leu Ala Leu	His Arg Lys Ile Lys	Asn
395	400	405
Glu Pro Val Val Phe Pro Glu Gly Pro	Glu Ile Ser Glu Glu	Leu
410	415	420
Lys Asp Leu Ile Leu Lys Met Leu Asp	Lys Asn Pro Glu Thr	Arg
425	430	435
Ile Gly Val Pro Asp Ile Lys Leu His	Pro Trp Val Thr Lys	Asn
440	445	450
Gly Glu Glu Pro Ile Pro Ser Glu Glu	Glu His Cys Ser Val	Val
455	460	465
Glu Val Thr Glu Glu Glu Val Lys Asn	Ser Val Arg Leu Ile	Pro
470	475	480
Ser Trp Thr Thr Val Ile Leu Val Lys	Ser Met Leu Arg Lys	Arg
485	490	495
Ser Phe Gly Asn Pro Phe Glu Pro Gln	Ala Arg Arg Glu Glu	Arg
500	505	510
Ser Met Ser Ala Pro Gly Asn Leu Leu	Val Lys Glu Gly Phe	Gly
515	520	525
Glu Gly Gly Lys Ser Pro Glu Leu Pro	Gly Val Gln Glu Asp	Glu
530	535	540
Ala Ala Ser		

<210> 10
<211> 445
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516533CD1

<400> 10
Met Arg Arg Arg Arg Arg Asp Gly Phe Tyr Pro Ala Pro Asp
1 5 10 15
Phe Arg Asp Arg Glu Ala Glu Asp Met Ala Gly Val Phe Asp Ile
20 25 30
Asp Leu Asp Gln Pro Glu Asp Ala Gly Ser Glu Asp Glu Leu Glu
35 40 45
Glu Gly Ala Met Ile Val Arg Asn Ala Lys Asp Thr Ala His Thr
50 55 60
Lys Ala Glu Arg Asn Ile Leu Glu Glu Val Lys His Pro Phe Ile
65 70 75
Val Asp Leu Ile Tyr Ala Phe Gln Thr Gly Gly Lys Leu Tyr Leu
80 85 90
Ile Leu Glu Tyr Leu Ser Gly Gly Glu Leu Phe Met Gln Leu Glu
95 100 105
Arg Glu Gly Ile Phe Met Glu Asp Thr Ala Cys Phe Tyr Leu Ala
110 115 120
Glu Ile Ser Met Ala Leu Gly His Leu His Gln Lys Gly Ile Ile
125 130 135
Tyr Arg Asp Leu Lys Pro Glu Asn Ile Met Leu Asn His Gln Gly
140 145 150

His Val Lys Leu Thr Asp Phe Gly Leu Cys Lys Glu Ser Ile His
 155 160 165
 Asp Gly Thr Val Thr His Thr Phe Cys Gly Thr Ile Glu Tyr Met
 170 175 180
 Ala Pro Glu Ile Leu Met Arg Ser Gly His Asn Arg Ala Val Asp
 185 190 195
 Trp Trp Ser Leu Gly Ala Leu Met Tyr Asp Met Leu Thr Gly Ala
 200 205 210
 Pro Pro Phe Thr Gly Glu Asn Arg Lys Lys Thr Ile Asp Lys Ile
 215 220 225
 Leu Lys Cys Lys Leu Asn Leu Pro Pro Tyr Leu Thr Gln Glu Ala
 230 235 240
 Arg Asp Leu Leu Lys Lys Leu Leu Lys Arg Asn Ala Ala Ser Arg
 245 250 255
 Leu Gly Ala Gly Pro Gly Asp Ala Gly Glu Val Gln Ala His Pro
 260 265 270
 Phe Phe Arg His Ile Asn Trp Glu Glu Leu Leu Ala Arg Lys Val
 275 280 285
 Glu Pro Pro Phe Lys Pro Leu Leu Gln Ser Glu Glu Asp Val Ser
 290 295 300
 Gln Phe Asp Ser Lys Phe Thr Arg Gln Thr Pro Val Asp Ser Pro
 305 310 315
 Asp Asp Ser Thr Leu Ser Glu Ser Ala Asn Gln Val Phe Leu Gly
 320 325 330
 Phe Thr Tyr Val Ala Pro Ser Val Leu Glu Ser Val Lys Glu Lys
 335 340 345
 Phe Ser Phe Glu Pro Lys Ile Arg Ser Pro Arg Arg Phe Ile Gly
 350 355 360
 Ser Pro Arg Thr Pro Val Ser Pro Val Lys Phe Ser Pro Gly Asp
 365 370 375
 Phe Trp Gly Arg Gly Ala Ser Ala Ser Ala Ala Asn Pro Gln Thr
 380 385 390
 Pro Val Glu Tyr Pro Met Glu Thr Ser Gly Ile Glu Gln Met Asp
 395 400 405
 Val Thr Met Ser Gly Glu Ala Ser Ala Pro Leu Pro Ile Arg Gln
 410 415 420
 Pro Asn Ser Gly Pro Tyr Lys Lys Gln Ala Phe Pro Met Ile Ser
 425 430 435
 Lys Arg Pro Glu His Leu Arg Met Asn Leu
 440 445

<210> 11
 <211> 1219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7516613CD1

<400> 11

Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu		
1 5 10 15		
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val		
20 25 30		
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val		
35 40 45		
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu		
50 55 60		
Asp Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys		
65 70 75		
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile		
80 85 90		
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met		

95	100	105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr		
110	115	120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg		
125	130	135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile		
140	145	150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala		
155	160	165
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Gly		
170	175	180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met		
185	190	195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr		
200	205	210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu		
215	220	225
Met Gly Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg		
230	235	240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser		
245	250	255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu		
260	265	270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys		
275	280	285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile		
290	295	300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu		
305	310	315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu		
320	325	330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn		
335	340	345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln		
350	355	360
Gln Glu Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu		
365	370	375
Leu Gln Glu Gln Gln Leu Arg Glu Gln Glu Glu Tyr Lys Arg Gln		
380	385	390
Leu Leu Ala Glu Arg Gln Lys Arg Ile Glu Gln Gln Lys Glu Gln		
395	400	405
Arg Arg Arg Leu Glu Glu Gln Gln Arg Arg Glu Arg Glu Ala Arg		
410	415	420
Arg Gln Gln Glu Arg Glu Gln Arg Arg Arg Glu Gln Glu Glu Lys		
425	430	435
Arg Arg Leu Glu Glu Leu Glu Arg Arg Arg Lys Glu Glu Glu Glu		
440	445	450
Arg Arg Gln Ala Glu Glu Glu Lys Arg Arg Val Glu Arg Glu Gln		
455	460	465
Glu Tyr Ile Arg Arg Gln Leu Glu Glu Glu Gln Arg His Leu Glu		
470	475	480
Val Leu Gln Gln Gln Leu Leu Gln Glu Gln Ala Met Leu Leu His		
485	490	495
Asp His Arg Arg Pro His Pro Gln His Ser Gln Gln Pro Pro Pro		
500	505	510
Pro Gln Gln Glu Arg Ser Lys Pro Ser Phe His Ala Pro Glu Pro		
515	520	525
Lys Ala His Tyr Glu Pro Ala Asp Arg Ala Arg Glu Val Pro Val		
530	535	540
Arg Thr Thr Ser Arg Ser Pro Val Leu Ser Arg Arg Asp Ser Pro		
545	550	555
Leu Gln Gly Ser Gly Gln Gln Asn Ser Gln Ala Gly Gln Arg Asn		
560	565	570
Ser Thr Ser Ser Ile Glu Pro Arg Leu Leu Trp Glu Arg Val Glu		

575	580	585
Lys Leu Met Pro Arg Pro Gly Ser Gly Ser Ser Ser Gly Ser Ser		
590	595	600
Asn Ser Gly Ser Gln Pro Gly Ser His Pro Gly Ser Gln Ser Gly		
605	610	615
Ser Gly Glu Arg Phe Arg Val Arg Ser Ser Ser Lys Ser Glu Gly		
620	625	630
Ser Pro Ser Gln Arg Leu Glu Asn Ala Val Lys Lys Pro Glu Asp		
635	640	645
Lys Lys Glu Val Phe Arg Pro Leu Lys Pro Ala Asp Leu Thr Ala		
650	655	660
Leu Ala Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His		
665	670	675
Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Pro Gly Thr Thr		
680	685	690
Asp Glu Glu Asp Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser		
695	700	705
Thr Ser Gly Pro Glu Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu		
710	715	720
Ser Asn Gly Glu Thr Glu Ser Val Lys Thr Met Ile Val His Asp		
725	730	735
Asp Val Glu Ser Glu Pro Ala Met Thr Pro Ser Lys Glu Gly Thr		
740	745	750
Leu Ile Val Arg Gln Ser Thr Val Asp Gln Lys Arg Ala Ser His		
755	760	765
His Glu Ser Asn Gly Phe Ala Gly Arg Ile His Leu Leu Pro Asp		
770	775	780
Leu Leu Gln Gln Ser His Ser Ser Ser Thr Ser Ser Thr Ser Ser		
785	790	795
Ser Pro Ser Ser Ser Gln Pro Thr Pro Thr Met Ser Pro Gln Thr		
800	805	810
Pro Gln Asp Lys Leu Thr Ala Asn Glu Thr Gln Ser Ala Ser Ser		
815	820	825
Thr Leu Gln Lys His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile		
830	835	840
Asp Pro Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val		
845	850	855
Thr Ser Val Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala		
860	865	870
Ile Arg Gln Asp Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn		
875	880	885
Pro Thr Asn Thr Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys		
890	895	900
Tyr Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp		
905	910	915
Gly Val Asn Leu Leu Val Gly Thr Glu Ser Gly Leu Met Leu Leu		
920	925	930
Asp Arg Ser Gly Gln Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg		
935	940	945
Arg Phe Gln Gln Met Asp Val Leu Glu Gly Leu Asn Val Leu Val		
950	955	960
Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser		
965	970	975
Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys		
980	985	990
Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly Cys Val His		
995	1000	1005
Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala		
1010	1015	1020
Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr		
1025	1030	1035
His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys		
1040	1045	1050
Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys		

1055	1060	1065
Val Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp		
1070	1075	1080
Ser Gly Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys		
1085	1090	1095
Ser Ile Lys Pro His Ala Ile Ile Leu Pro Asn Thr Asp Gly		
1100	1105	1110
Met Glu Leu Leu Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn		
1115	1120	1125
Thr Tyr Gly Arg Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu		
1130	1135	1140
Met Pro Thr Ser Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly		
1145	1150	1155
Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His		
1160	1165	1170
Leu Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe		
1175	1180	1185
Leu Cys Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser		
1190	1195	1200
Gly Gly Ser Ser Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser		
1205	1210	1215
Leu Leu Ser Trp		

<210> 12
<211> 1168
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517068CD1

<400> 12			
Met Ala Ser Asp Ser Pro Ala Arg Ser Leu Asp Glu Ile Asp Leu			
1	5	10	15
Ser Ala Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Leu			
20	25	30	
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val			
35	40	45	
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Gly			
50	55	60	
Asp Glu Glu Glu Ile Lys Gln Glu Ile Asn Met Leu Lys Lys			
65	70	75	
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile			
80	85	90	
Lys Lys Asn Pro Pro Gly Met Asp Asp Gln Leu Trp Leu Val Met			
95	100	105	
Glu Phe Cys Gly Ala Gly Ser Val Thr Asp Leu Ile Lys Asn Thr			
110	115	120	
Lys Gly Asn Thr Leu Lys Glu Glu Trp Ile Ala Tyr Ile Cys Arg			
125	130	135	
Glu Ile Leu Arg Gly Leu Ser His Leu His Gln His Lys Val Ile			
140	145	150	
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala			
155	160	165	
Glu Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg			
170	175	180	
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met			
185	190	195	
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr			
200	205	210	
Asp Phe Lys Ser Asp Leu Trp Ser Leu Gly Ile Thr Ala Ile Glu			
215	220	225	

Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
 230 235 240
 Ala Leu Phe Leu Ile Pro Arg Asn Pro Ala Pro Arg Leu Lys Ser
 245 250 255
 Lys Lys Trp Ser Lys Lys Phe Gln Ser Phe Ile Glu Ser Cys Leu
 260 265 270
 Val Lys Asn His Ser Gln Arg Pro Ala Thr Glu Gln Leu Met Lys
 275 280 285
 His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
 290 295 300
 Gln Leu Lys Asp His Ile Asp Arg Thr Lys Lys Lys Arg Gly Glu
 305 310 315
 Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
 320 325 330
 Glu Glu Asn Asp Ser Gly Glu Pro Ser Ser Ile Leu Asn Leu Pro
 335 340 345
 Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln Leu Ala
 350 355 360
 Asn Lys Glu Arg Ser Glu Ala Leu Arg Arg Gln Gln Leu Glu Gln
 365 370 375
 Gln Gln Arg Glu Asn Glu Glu His Lys Arg Gln Leu Leu Ala Glu
 380 385 390
 Arg Gln Lys Arg Ile Glu Glu Gln Lys Glu Gln Arg Arg Arg Leu
 395 400 405
 Glu Glu Ile Pro His Leu Val Ala Val Lys Ser Gln Gly Pro Ala
 410 415 420
 Leu Thr Ala Ser Gln Ser Val His Glu Gln Pro Thr Lys Gly Leu
 425 430 435
 Ser Gly Phe Gln Glu Ala Leu Asn Val Thr Ser His Arg Val Glu
 440 445 450
 Met Pro Arg Gln Asn Ser Asp Pro Thr Ser Glu Asn Pro Pro Leu
 455 460 465
 Pro Thr Arg Ile Glu Lys Phe Asp Arg Ser Ser Trp Leu Arg Gln
 470 475 480
 Glu Glu Asp Ile Pro Pro Lys Val Pro Gln Arg Thr Thr Ser Ile
 485 490 495
 Ser Pro Ala Leu Ala Arg Lys Asn Ser Pro Gly Asn Gly Ser Ala
 500 505 510
 Leu Gly Pro Arg Leu Gly Ser Gln Pro Ile Arg Ala Ser Asn Pro
 515 520 525
 Asp Leu Arg Arg Thr Glu Pro Ile Leu Glu Ser Pro Leu Gln Arg
 530 535 540
 Thr Ser Ser Gly Ser Ser Ser Ser Ser Thr Pro Ser Ser Gln
 545 550 555
 Pro Ser Ser Gln Gly Gly Ser Gln Pro Gly Ser Gln Ala Gly Ser
 560 565 570
 Ser Gly Arg Thr Arg Val Arg Ala Asn Ser Lys Ser Glu Gly Ser
 575 580 585
 Pro Val Leu Pro His Glu Pro Ala Lys Val Lys Pro Glu Glu Ser
 590 595 600
 Arg Asp Ile Thr Arg Pro Ser Arg Pro Ala Asp Leu Thr Ala Leu
 605 610 615
 Ala Lys Glu Leu Arg Glu Leu Arg Ile Glu Glu Thr Asn Arg Pro
 620 625 630
 Met Lys Lys Val Thr Asp Tyr Ser Ser Ser Ser Glu Glu Ser Glu
 635 640 645
 Ser Ser Glu Glu Glu Glu Asp Gly Glu Ser Glu Thr His Asp
 650 655 660
 Gly Thr Val Ala Val Ser Asp Ile Pro Arg Leu Ile Pro Thr Gly
 665 670 675
 Ala Pro Gly Ser Asn Glu Gln Tyr Asn Val Gly Met Val Gly Thr
 680 685 690
 His Gly Leu Glu Thr Ser His Ala Asp Ser Phe Ser Gly Ser Ile
 695 700 705

Ser Arg Glu Gly Thr Leu Met Ile Arg Glu Thr Ser Gly Glu Lys
 710 715 720
 Lys Arg Ser Gly His Ser Asp Ser Asn Gly Phe Ala Gly His Ile
 725 730 735
 Asn Leu Pro Asp Leu Val Gln Gln Ser His Ser Pro Ala Gly Thr
 740 745 750
 Pro Thr Glu Gly Leu Gly Arg Val Ser Thr His Ser Gln Glu Met
 755 760 765
 Asp Ser Gly Thr Glu Tyr Gly Met Gly Ser Ser Thr Lys Ala Ser
 770 775 780
 Phe Thr Pro Phe Val Asp Pro Arg Val Tyr Gln Thr Ser Pro Thr
 785 790 795
 Asp Glu Asp Glu Glu Asp Glu Ser Ser Ala Ala Ala Leu Phe
 800 805 810
 Thr Ser Glu Leu Leu Arg Gln Glu Gln Ala Lys Leu Asn Glu Ala
 815 820 825
 Arg Lys Ile Ser Val Val Asn Val Asn Pro Thr Asn Ile Arg Pro
 830 835 840
 His Ser Asp Thr Pro Glu Ile Arg Gln Tyr Lys Lys Arg Phe Asn
 845 850 855
 Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu Val
 860 865 870
 Gly Thr Glu Asn Gly Leu Met Leu Leu Asp Arg Ser Gly Gln Gly
 875 880 885
 Lys Val Tyr Asn Leu Ile Asn Arg Arg Arg Phe Gln Gln Met Asp
 890 895 900
 Val Leu Glu Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys Lys
 905 910 915
 Asn Lys Leu Arg Val Tyr Tyr Leu Ser Trp Leu Arg Asn Arg Ile
 920 925 930
 Leu His Asn Asp Pro Glu Val Glu Lys Lys Gln Gly Trp Ile Thr
 935 940 945
 Val Gly Asp Leu Glu Gly Cys Ile His Tyr Lys Val Val Lys Tyr
 950 955 960
 Glu Arg Ile Lys Phe Leu Val Ile Ala Leu Lys Asn Ala Val Glu
 965 970 975
 Ile Tyr Ala Trp Ala Pro Lys Pro Tyr His Lys Phe Met Ala Phe
 980 985 990
 Lys Ser Phe Ala Asp Leu Gln His Lys Pro Leu Leu Val Asp Leu
 995 1000 1005
 Thr Val Glu Glu Gly Gln Arg Leu Lys Val Ile Phe Gly Ser His
 1010 1015 1020
 Thr Gly Phe His Val Ile Asp Val Asp Ser Gly Asn Ser Tyr Asp
 1025 1030 1035
 Ile Tyr Ile Pro Ser His Ile Gln Gly Asn Ile Thr Pro His Ala
 1040 1045 1050
 Ile Val Ile Leu Pro Lys Thr Asp Gly Met Glu Met Leu Val Cys
 1055 1060 1065
 Tyr Glu Asp Glu Gly Val Tyr Val Asp Thr Tyr Gly Arg Ile Thr
 1070 1075 1080
 Lys Asp Val Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala
 1085 1090 1095
 Tyr Ile His Ser Asp Gln Ile Met Gly Trp Gly Glu Lys Ala Ile
 1100 1105 1110
 Glu Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met
 1115 1120 1125
 His Lys Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp
 1130 1135 1140
 Lys Val Phe Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val
 1145 1150 1155
 Phe Phe Met Thr Leu Asn Arg Asn Ser Met Met Asn Trp
 1160 1165

<211> 650

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7517148CD1

<400> 13

Met Ala Asp Leu Glu Ala Val Leu Ala Asp Val Ser Tyr Leu Met
1 5 10 15
Ala Met Glu Lys Ser Lys Ala Thr Pro Ala Ala Arg Ala Ser Lys
20 25 30
Arg Ile Val Leu Pro Glu Pro Ser Ile Arg Ser Val Met Gln Lys
35 40 45
Tyr Leu Ala Glu Arg Asn Glu Ile Thr Leu Asp Lys Ile Phe Asn
50 55 60
Gln Lys Ile Gly Phe Leu Leu Phe Lys Asp Phe Cys Leu Asn Glu
65 70 75
Ile Asn Glu Ala Val Pro Gln Val Lys Phe Tyr Glu Glu Ile Lys
80 85 90
Glu Tyr Glu Lys Leu Asp Asn Glu Glu Asp Arg Leu Cys Arg Ser
95 100 105
Arg Gln Ile Tyr Asp Ala Tyr Ile Met Lys Glu Leu Leu Ser Cys
110 115 120
Ser His Pro Phe Ser Lys Gln Ala Val Glu His Val Gln Ser His
125 130 135
Leu Ser Lys Lys Gln Val Thr Ser Thr Leu Phe Gln Pro Tyr Ile
140 145 150
Glu Glu Ile Cys Glu Ser Leu Arg Gly Asp Ile Phe Gln Lys Phe
155 160 165
Met Glu Ser Asp Lys Phe Thr Arg Phe Cys Gln Trp Lys Asn Val
170 175 180
Glu Leu Asn Ile His Leu Thr Met Asn Glu Phe Ser Val His Arg
185 190 195
Ile Ile Gly Arg Gly Phe Gly Glu Val Tyr Gly Cys Arg Lys
200 205 210
Ala Asp Thr Gly Lys Met Tyr Ala Met Lys Cys Leu Asp Lys Lys
215 220 225
Arg Ile Lys Met Lys Gln Gly Glu Thr Leu Ala Leu Asn Glu Arg
230 235 240
Ile Met Leu Ser Leu Val Ser Thr Gly Asp Cys Pro Phe Ile Val
245 250 255
Cys Met Thr Tyr Ala Phe His Thr Pro Asp Lys Leu Cys Phe Ile
260 265 270
Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln
275 280 285
His Gly Val Phe Ser Glu Lys Glu Met Arg Phe Tyr Ala Thr Glu
290 295 300
Ile Ile Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr
305 310 315
Arg Asp Leu Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His
320 325 330
Ala Arg Ile Ser Asp Leu Gly Leu Ala Cys Asp Phe Ser Lys Lys
335 340 345
Lys Pro His Ala Ser Val Gly Thr His Gly Tyr Met Ala Pro Glu
350 355 360
Val Leu Gln Lys Gly Thr Ala Tyr Asp Ser Ser Ala Asp Trp Phe
365 370 375
Ser Leu Gly Cys Met Leu Phe Lys Leu Leu Arg Gly His Ser Pro
380 385 390
Phe Arg Gln His Lys Thr Lys Asp Lys His Glu Ile Asp Arg Met
395 400 405
Thr Leu Thr Val Asn Val Glu Leu Pro Asp Thr Phe Ser Pro Glu

410	415	420
Leu Lys Ser Leu Leu Glu Gly Leu Leu Gln Arg Asp Val Ser Lys		
425	430	435
Arg Leu Gly Cys His Gly Gly Ser Gln Glu Val Lys Glu His		
440	445	450
Ser Phe Phe Lys Gly Val Asp Trp Gln His Val Tyr Leu Gln Lys		
455	460	465
Tyr Pro Pro Pro Leu Ile Pro Pro Arg Gly Glu Val Asn Ala Ala		
470	475	480
Asp Ala Phe Asp Ile Gly Ser Phe Asp Glu Glu Asp Thr Lys Gly		
485	490	495
Ile Lys Leu Leu Asp Cys Asp Gln Glu Leu Tyr Lys Asn Phe Pro		
500	505	510
Leu Val Ile Ser Glu Arg Trp Gln Gln Glu Val Thr Glu Thr Val		
515	520	525
Tyr Glu Ala Val Asn Ala Asp Thr Asp Lys Ile Glu Ala Arg Lys		
530	535	540
Arg Ala Lys Asn Lys Gln Leu Gly His Glu Glu Asp Tyr Ala Leu		
545	550	555
Gly Lys Asp Cys Ile Met His Gly Tyr Met Leu Lys Leu Gly Asn		
560	565	570
Pro Phe Leu Thr Gln Trp Gln Arg Arg Tyr Phe Tyr Leu Phe Pro		
575	580	585
Asn Arg Leu Glu Trp Arg Gly Glu Gly Glu Ser Arg Ser Asp Pro		
590	595	600
Glu Phe Val Gln Trp Lys Lys Glu Leu Asn Glu Thr Phe Lys Glu		
605	610	615
Ala Arg Arg Leu Leu Arg Arg Ala Pro Lys Phe Leu Asn Lys Pro		
620	625	630
Arg Ser Gly Thr Val Glu Leu Pro Lys Pro Ser Leu Cys His Arg		
635	640	645
Asn Ser Asn Gly Leu		
650		

<210> 14

<211> 603

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7517238CD1

<400> 14

Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu		
1 5 10 15		
Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His		
20 25 30		
Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn		
35 40 45		
Thr Leu Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala		
50 55 60		
Leu Lys Asn Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val		
65 70 75		
Leu Glu Thr Ala Asn Lys Ile Phe Met Val Leu Glu Glu Asn Leu		
80 85 90		
Leu Phe Asp Glu Tyr His Lys Leu Lys Leu Ile Asp Phe Gly Leu		
95 100 105		
Cys Ala Lys Pro Lys Gly Asn Lys Asp Tyr His Leu Gln Thr Cys		
110 115 120		
Cys Gly Ser Leu Ala Tyr Ala Ala Pro Glu Leu Ile Gln Gly Lys		
125 130 135		
Ser Tyr Leu Gly Ser Glu Ala Asp Val Trp Ser Met Gly Ile Leu		
140 145 150		

Leu Tyr Val Leu Met Cys Gly Phe Leu Pro Phe Asp Asp Asp Asn
 155 160 165
 Val Met Ala Leu Tyr Lys Lys Ile Met Arg Gly Lys Tyr Asp Val
 170 175 180
 Pro Lys Trp Leu Ser Pro Ser Ser Ile Leu Leu Leu Gln Gln Met
 185 190 195
 Leu Gln Val Asp Pro Lys Lys Arg Ile Ser Met Lys Asn Leu Leu
 200 205 210
 Asn His Pro Trp Ile Met Gln Asp Tyr Asn Tyr Pro Val Glu Trp
 215 220 225
 Gln Ser Lys Asn Pro Phe Ile His Leu Asp Asp Asp Cys Val Thr
 230 235 240
 Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr Met Glu Asp
 245 250 255
 Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr Tyr Leu
 260 265 270
 Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu Arg
 275 280 285
 Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr
 290 295 300
 Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser
 305 310 315
 Asp Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu
 320 325 330
 Asp Asp Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe
 335 340 345
 Thr Lys Tyr Trp Thr Glu Ser Asn Gly Ala Glu Ser Lys Ser Leu
 350 355 360
 Thr Pro Ala Leu Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys
 365 370 375
 Glu Asn Val Tyr Thr Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr
 380 385 390
 Phe Met Phe Pro Glu Pro Lys Thr Pro Val Asn Lys Asn Gln His
 395 400 405
 Lys Arg Glu Ile Leu Thr Thr Pro Asn Arg Tyr Thr Thr Pro Ser
 410 415 420
 Lys Ala Arg Asn Gln Cys Leu Lys Glu Thr Pro Ile Lys Ile Pro
 425 430 435
 Val Asn Ser Thr Gly Thr Asp Lys Leu Met Thr Gly Val Ile Ser
 440 445 450
 Pro Glu Arg Arg Cys Arg Ser Val Glu Leu Asp Leu Asn Gln Ala
 455 460 465
 His Met Glu Glu Thr Pro Lys Arg Lys Gly Ala Lys Val Phe Gly
 470 475 480
 Ser Leu Glu Arg Gly Leu Asp Lys Val Ile Thr Val Leu Thr Arg
 485 490 495
 Ser Lys Arg Lys Gly Ser Ala Arg Asp Gly Pro Arg Arg Leu Lys
 500 505 510
 Leu His Tyr Asn Val Thr Thr Thr Arg Leu Val Asn Pro Asp Gln
 515 520 525
 Leu Leu Asn Glu Ile Met Ser Ile Leu Pro Lys Lys His Val Asp
 530 535 540
 Phe Val Gln Lys Gly Tyr Thr Leu Lys Cys Gln Thr Gln Ser Asp
 545 550 555
 Phe Gly Lys Val Thr Met Gln Phe Glu Leu Glu Val Cys Gln Leu
 560 565 570
 Gln Lys Pro Asp Val Val Gly Ile Arg Arg Gln Arg Leu Lys Gly
 575 580 585
 Asp Ala Trp Val Tyr Lys Arg Leu Val Glu Asp Ile Leu Ser Ser
 590 595 600
 Cys Lys Val

<211> 750

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7518685CD1

<400> 15

Met	Asp	Gln	Arg	Glu	Ile	Leu	Gln	Lys	Phe	Leu	Asp	Glu	Ala	Gln	
1				5				10							15
Ser	Lys	Lys	Ile	Thr	Lys	Glu	Glu	Phe	Ala	Asn	Glu	Phe	Leu	Lys	
					20			25							30
Leu	Lys	Arg	Gln	Ser	Thr	Lys	Tyr	Lys	Ala	Asp	Lys	Thr	Tyr	Pro	
					35			40							45
Thr	Thr	Val	Ala	Glu	Lys	Pro	Lys	Asn	Ile	Lys	Lys	Asn	Arg	Tyr	
					50			55							60
Lys	Asp	Ile	Leu	Pro	Tyr	Asp	Tyr	Ser	Arg	Val	Glu	Leu	Ser	Leu	
					65			70							75
Ile	Thr	Ser	Asp	Glu	Asp	Ser	Ser	Tyr	Ile	Asn	Ala	Asn	Phe	Ile	
					80			85							90
Lys	Gly	Val	Tyr	Gly	Pro	Lys	Ala	Tyr	Ile	Ala	Thr	Gln	Gly	Pro	
					95			100							105
Leu	Ser	Thr	Thr	Leu	Leu	Asp	Phe	Trp	Arg	Met	Ile	Trp	Glu	Tyr	
					110			115							120
Ser	Val	Leu	Glu	Thr	Arg	Thr	Ile	Tyr	Gln	Phe	His	Tyr	Glu	Asn	
					125			130							135
Trp	Pro	Asp	His	Asp	Val	Pro	Ser	Ser	Ile	Asp	Pro	Ile	Leu	Glu	
					140			145							150
Leu	Ile	Trp	Asp	Val	Arg	Cys	Tyr	Gln	Glu	Asp	Asp	Ser	Val	Pro	
					155			160							165
Ile	Cys	Ile	His	Cys	Ser	Ala	Gly	Cys	Gly	Arg	Thr	Gly	Val	Ile	
					170			175							180
Cys	Ala	Ile	Asp	Tyr	Thr	Trp	Met	Leu	Leu	Lys	Asp	Gly	Ile	Ile	
					185			190							195
Pro	Glu	Asn	Phe	Ser	Val	Phe	Ser	Leu	Ile	Arg	Glu	Met	Arg	Thr	
					200			205							210
Gln	Arg	Pro	Ser	Leu	Val	Gln	Thr	Gln	Glu	Gln	Tyr	Glu	Leu	Val	
					215			220							225
Tyr	Asn	Ala	Val	Leu	Glu	Leu	Phe	Lys	Arg	Gln	Met	Asp	Val	Ile	
					230			235							240
Arg	Asp	Lys	His	Ser	Gly	Thr	Glu	Ser	Gln	Ala	Lys	His	Cys	Ile	
					245			250							255
Pro	Glu	Lys	Asn	His	Thr	Leu	Gln	Ala	Asp	Ser	Tyr	Ser	Pro	Asn	
					260			265							270
Leu	Pro	Lys	Ser	Thr	Thr	Lys	Ala	Ala	Lys	Met	Met	Asn	Gln	Gln	
					275			280							285
Arg	Thr	Lys	Met	Glu	Ile	Lys	Glu	Ser	Ser	Ser	Phe	Asp	Phe	Arg	
					290			295							300
Thr	Ser	Glu	Ile	Ser	Ala	Lys	Glu	Glu	Leu	Val	Leu	His	Pro	Ala	
					305			310							315
Lys	Ser	Ser	Thr	Ser	Phe	Asp	Phe	Leu	Glu	Leu	Asn	Tyr	Ser	Phe	
					320			325							330
Asp	Lys	Asn	Ala	Asp	Thr	Thr	Met	Lys	Trp	Gln	Thr	Lys	Ala	Phe	
					335			340							345
Pro	Ile	Val	Gly	Glu	Pro	Leu	Gln	Lys	His	Gln	Ser	Leu	Asp	Leu	
					350			355							360
Gly	Ser	Leu	Leu	Phe	Glu	Gly	Cys	Ser	Asn	Ser	Lys	Pro	Val	Asn	
					365			370							375
Ala	Ala	Gly	Arg	Tyr	Phe	Asn	Ser	Lys	Val	Pro	Ile	Thr	Arg	Thr	
					380			385							390
Lys	Ser	Thr	Pro	Phe	Glu	Leu	Ile	Gln	Gln	Arg	Glu	Thr	Lys	Glu	
					395			400							405
Val	Asp	Ser	Lys	Glu	Asn	Phe	Ser	Tyr	Leu	Glu	Ser	Gln	Pro	His	

410	415	420
Asp Ser Cys Phe Val Glu Met Gln Ala Gln	Lys Val Met His Val	
425	430	435
Ser Ser Ala Glu Leu Asn Tyr Ser Leu Pro	Tyr Asp Ser Lys His	
440	445	450
Gln Ile Arg Asn Ala Ser Asn Val Lys His	His Asp Ser Ser Ala	
455	460	465
Leu Gly Val Tyr Ser Tyr Ile Pro Leu Val	Glu Asn Pro Tyr Phe	
470	475	480
Ser Ser Trp Pro Pro Ser Gly Thr Ser Ser	Lys Met Ser Leu Asp	
485	490	495
Leu Pro Glu Lys Arg Asp Gly Thr Val Phe	Pro Ser Ser Leu Leu	
500	505	510
Pro Thr Ser Ser Thr Ser Leu Phe Ser Tyr	Tyr Asn Ser His Asp	
515	520	525
Ser Leu Ser Leu Asn Ser Pro Thr Asn Ile	Ser Ser Leu Leu Asn	
530	535	540
Gln Glu Ser Ala Val Leu Ala Thr Ala Pro	Arg Ile Asp Asp Glu	
545	550	555
Ile Pro Pro Pro Leu Pro Val Arg Thr Pro	Glu Ser Phe Ile Val	
560	565	570
Val Glu Glu Ala Gly Glu Phe Ser Pro Asn	Val Pro Asn Pro Leu	
575	580	585
Ser Ser Ala Val Lys Val Lys Ile Gly Thr	Ser Leu Glu Trp Gly	
590	595	600
Gly Thr Ser Glu Pro Lys Lys Phe Asp Asp	Ser Val Ile Leu Arg	
605	610	615
Pro Ser Lys Ser Val Lys Leu Arg Ser Pro	Lys Ser Glu Leu His	
620	625	630
Gln Asp Arg Ser Ser Pro Pro Pro Pro Leu	Pro Glu Arg Thr Leu	
635	640	645
Glu Ser Phe Phe Leu Ala Asp Glu Asp Cys	Met Gln Ala Gln Ser	
650	655	660
Ile Glu Thr Tyr Ser Thr Ser Tyr Pro Asp	Thr Met Glu Asn Ser	
665	670	675
Thr Ser Ser Lys Gln Thr Leu Lys Thr Pro	Gly Lys Ser Phe Thr	
680	685	690
Arg Ser Lys Ser Leu Lys Ile Leu Arg Asn	Met Lys Lys Ser Ile	
695	700	705
Cys Asn Ser Cys Pro Pro Asn Lys Pro Ala	Glu Ser Val Gln Ser	
710	715	720
Asn Asn Ser Ser Ser Phe Leu Asn Phe Gly	Phe Ala Asn Arg Phe	
725	730	735
Ser Lys Pro Glu Gly Pro Arg Asn Pro Pro	Pro Thr Trp Asn Ile	
740	745	750

<210> 16

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520192CD1

<400> 16

Met Thr Ser Arg Phe Arg Leu Pro Ala Gly	Arg Thr Tyr Asn Val		
1	5	10	15
Arg Ala Ser Glu Leu Ala Arg Asp Arg Gln	His Thr Glu Val Val		
20	25	30	
Cys Asn Ile Leu Leu Asp Asn Thr Val Gln	Ala Phe Lys Val		
35	40	45	
Asn Lys His Asp Gln Gly Gln Val Leu	Asp Val Val Phe Lys		

50	55	60
His Leu Asp Leu Thr Glu Gln Asp Tyr Phe Gly Leu Gln Leu Ala		
65	70	75
Asp Asp Ser Thr Asp Asn Pro Arg Trp Leu Asp Pro Asn Lys Pro		
80	85	90
Ile Arg Lys Gln Leu Lys Arg Gly Ser Pro Tyr Ser Leu Asn Phe		
95	100	105
Arg Val Lys Phe Phe Val Ser Asp Pro Asn Lys Leu Gln Glu Glu		
110	115	120
Tyr Thr Arg Gly Leu Ser Pro Ala Glu Ala Glu Phe Asn Tyr Leu		
125	130	135
Asn Thr Ala Arg Thr Leu Glu Leu Tyr Gly Val Glu Phe His Tyr		
140	145	150
Ala Arg Asp Gln Ser Asn Asn Glu Ile Met Ile Gly Val Met Ser		
155	160	165
Gly Gly Ile Leu Ile Tyr Lys Asn Arg Val Arg Met Asn Thr Phe		
170	175	180
Pro Trp Leu Lys Ile Val Lys Ile Ser Phe Lys Cys Lys Gln Phe		
185	190	195
Phe Ile Gln Leu Arg Lys Glu Leu Ile Pro Lys		
200	205	

<210> 17

<211> 733

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520428CD1

<400> 17

Met Met Lys Arg Arg Arg Glu Arg Leu Gly Ala Pro Cys Leu Arg			
1	5	10	15
Ile Gln Ile Ser Thr Leu Cys Arg Gly Ala Glu Val Asn Gln His			
20	25	30	
Met Phe Ser Pro Thr Ser Ala Pro Ala Leu Phe Leu Thr Lys Val			
35	40	45	
Pro Phe Ser Ala Asp Cys Ala Leu Ala Thr Ser Pro Leu Ala Ile			
50	55	60	
Phe Leu Asn Leu Arg Ala His Ser Ser Pro Gly Thr Pro Cys Ser			
65	70	75	
Ser Arg Pro Leu Pro Trp Ser Cys Arg Thr Ser Asn Arg Lys Ser			
80	85	90	
Leu Ile Val Thr Ser Ser Thr Ser Pro Thr Leu Pro Arg Pro His			
95	100	105	
Ser Pro Leu His Gly His Thr Gly Asn Ser Pro Leu Asp Ser Pro			
110	115	120	
Arg Asn Phe Ser Pro Asn Ala Pro Ala His Phe Ser Phe Val Pro			
125	130	135	
Ala Arg Arg Thr Asp Gly Arg Arg Trp Ser Leu Ala Ser Leu Pro			
140	145	150	
Ser Ser Gly Tyr Gly Thr Asn Thr Pro Ser Ser Thr Val Ser Ser			
155	160	165	
Ser Cys Ser Ser Gln Glu Lys Leu His Gln Leu Pro Phe Gln Pro			
170	175	180	
Thr Ala Asp Glu Leu His Phe Leu Thr Lys His Phe Ser Thr Glu			
185	190	195	
Ser Val Pro Asp Glu Glu Gly Arg Gln Ser Pro Ala Met Arg Pro			
200	205	210	
Arg Ser Arg Ser Leu Ser Pro Gly Arg Ser Pro Val Ser Phe Asp			
215	220	225	
Ser Glu Ile Ile Met Met Asn His Val Tyr Lys Glu Arg Phe Pro			
230	235	240	

Lys Ala Thr Ala Gln Met Glu Glu Arg Leu Ala Glu Phe Ile Ser
 245 250 255
 Ser Asn Thr Pro Asp Ser Val Leu Pro Leu Ala Asp Gly Ala Leu
 260 265 270
 Ser Phe Ile His His Gln Val Ile Glu Met Ala Arg Asp Cys Leu
 275 280 285
 Asp Lys Ser Arg Ser Gly Leu Ile Thr Ser Gln Tyr Phe Tyr Glu
 290 295 300
 Leu Gln Glu Asn Leu Glu Lys Leu Leu Gln Asp Ala His Glu Arg
 305 310 315
 Ser Glu Ser Ser Glu Val Ala Phe Val Met Gln Leu Val Lys Lys
 320 325 330
 Leu Met Ile Ile Ile Ala Arg Pro Ala Arg Leu Leu Glu Cys Leu
 335 340 345
 Glu Phe Asp Pro Glu Glu Phe Tyr His Leu Leu Glu Ala Ala Glu
 350 355 360
 Gly His Ala Lys Glu Gly Gln Gly Ile Lys Cys Asp Ile Pro Arg
 365 370 375
 Tyr Ile Val Ser Gln Leu Gly Leu Thr Arg Asp Pro Leu Glu Glu
 380 385 390
 Met Ala Gln Leu Ser Ser Cys Asp Ser Pro Asp Thr Pro Glu Thr
 395 400 405
 Asp Asp Ser Ile Glu Gly His Gly Ala Ser Leu Pro Ser Lys Lys
 410 415 420
 Thr Pro Ser Glu Glu Asp Phe Glu Thr Ile Lys Leu Ile Ser Asn
 425 430 435
 Gly Ala Tyr Gly Ala Val Phe Leu Val Arg His Lys Ser Thr Arg
 440 445 450
 Gln Arg Phe Ala Met Lys Lys Ile Asn Lys Gln Asn Leu Ile Leu
 455 460 465
 Arg Asn Gln Ile Gln Gln Ala Phe Val Glu Arg Asp Ile Leu Thr
 470 475 480
 Phe Ala Glu Asn Pro Phe Val Val Ser Met Phe Cys Ser Phe Asp
 485 490 495
 Thr Lys Arg His Leu Cys Met Val Met Glu Tyr Val Glu Gly Gly
 500 505 510
 Asp Cys Ala Thr Leu Leu Lys Asn Ile Gly Ala Leu Pro Val Asp
 515 520 525
 Met Val Arg Leu Tyr Phe Ala Glu Thr Val Leu Ala Leu Glu Tyr
 530 535 540
 Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro Asp Asn
 545 550 555
 Leu Leu Ile Thr Ser Met Gly His Ile Lys Leu Thr Asp Phe Gly
 560 565 570
 Leu Ser Lys Met Gly Leu Met Ser Leu Thr Thr Asn Leu Tyr Glu
 575 580 585
 Gly His Ile Glu Lys Asp Ala Arg Glu Phe Leu Asp Lys Gln Val
 590 595 600
 Cys Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Leu Arg Gln
 605 610 615
 Gly Tyr Gly Lys Pro Val Asp Trp Trp Ala Met Gly Ile Ile Leu
 620 625 630
 Tyr Glu Phe Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro
 635 640 645
 Glu Glu Leu Phe Gly Gln Val Ile Ser Asp Glu Ile Val Trp Pro
 650 655 660
 Glu Gly Asp Glu Ala Leu Pro Pro Asp Ala Gln Asp Leu Thr Ser
 665 670 675
 Lys Leu Leu His Gln Asn Pro Leu Glu Arg Leu Gly Thr Gly Ser
 680 685 690
 Ala Tyr Glu Val Lys Gln His Pro Phe Phe Thr Gly Leu Asp Trp
 695 700 705
 Thr Gly Leu Leu Arg Gln Lys Ala Glu Phe Ile Pro Gln Leu Glu
 710 715 720

Ser Glu Asp Asp Thr Ser Tyr Phe Asp Thr Arg Ser Glu
 725 730

<210> 18
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7522586CD1

<400> 18
 Met Gly Asp Glu Lys Asp Ser Trp Lys Val Lys Thr Leu Asp Glu
 1 5 10 15
 Ile Leu Gln Glu Lys Lys Arg Arg Lys Glu Gln Glu Glu Lys Ala
 20 25 30
 Glu Ile Lys Arg Leu Lys Asn Ser Asp Asp Arg Asp Ser Lys Arg
 35 40 45
 Asp Ser Leu Glu Gly Glu Leu Arg Asp His Cys Met Glu Ile
 50 55 60
 Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu Asp Ser Met Glu Asp
 65 70 75
 Arg Gly Glu Glu Asp Asp Ser Leu Ala Ile Lys Pro Pro Gln Gln
 80 85 90
 Met Ser Arg Lys Glu Lys Val His His Arg Lys Asp Glu Lys Arg
 95 100 105
 Lys Glu Lys Trp Thr Ala Trp Ser Ser
 110

<210> 19
 <211> 612
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524017CD1

<400> 19
 Met Lys Asp Tyr Asp Glu Leu Leu Lys Tyr Tyr Glu Leu His Glu
 1 5 10 15
 Thr Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His
 20 25 30
 Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn
 35 40 45
 Thr Leu Gly Tyr Cys Pro Gly Gly Glu Leu Phe Asp Tyr Ile Ile
 50 55 60
 Ser Gln Asp Arg Leu Ser Glu Glu Glu Thr Arg Val Val Phe Arg
 65 70 75
 Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly Tyr Ala
 80 85 90
 His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr His
 95 100 105
 Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
 110 115 120
 Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr
 125 130 135
 Ala Ala Pro Glu Leu Ile Gln Gly Lys Ser Tyr Leu Gly Ser Glu
 140 145 150
 Ala Asp Val Trp Ser Met Gly Ile Leu Leu Tyr Val Leu Met Cys
 155 160 165
 Gly Phe Leu Pro Phe Asp Asp Asp Asn Val Met Ala Leu Tyr Lys
 170 175 180

Lys	Ile	Met	Arg	Gly	Lys	Tyr	Asp	Val	Pro	Lys	Trp	Leu	Ser	Pro
				185					190					195
Ser	Ser	Ile	Leu	Leu	Leu	Gln	Gln	Met	Leu	Gln	Val	Asp	Pro	Lys
				200					205					210
Lys	Arg	Ile	Ser	Met	Lys	Asn	Leu	Leu	Asn	His	Pro	Trp	Ile	Met
				215					220					225
Gln	Asp	Tyr	Asn	Tyr	Pro	Val	Glu	Trp	Gln	Ser	Lys	Asn	Pro	Phe
				230					235					240
Ile	His	Leu	Asp	Asp	Asp	Cys	Val	Thr	Glu	Leu	Ser	Val	His	His
				245					250					255
Arg	Asn	Asn	Arg	Gln	Thr	Met	Glu	Asp	Leu	Ile	Ser	Leu	Trp	Gln
				260					265					270
Tyr	Asp	His	Leu	Thr	Ala	Thr	Tyr	Leu	Leu	Leu	Leu	Ala	Lys	Lys
				275					280					285
Ala	Arg	Gly	Lys	Pro	Val	Arg	Leu	Arg	Leu	Ser	Ser	Phe	Ser	Cys
				290					295					300
Gly	Gln	Ala	Ser	Ala	Thr	Pro	Phe	Thr	Asp	Ile	Lys	Ser	Asn	Asn
				305					310					315
Trp	Ser	Leu	Glu	Asp	Val	Thr	Ala	Ser	Asp	Lys	Asn	Tyr	Val	Ala
				320					325					330
Gly	Leu	Ile	Asp	Tyr	Asp	Trp	Cys	Glu	Asp	Asp	Leu	Ser	Thr	Gly
				335					340					345
Ala	Ala	Thr	Pro	Arg	Thr	Ser	Gln	Phe	Thr	Lys	Tyr	Trp	Thr	Glu
				350					355					360
Ser	Asn	Gly	Val	Glu	Ser	Lys	Ser	Leu	Thr	Pro	Ala	Leu	Cys	Arg
				365					370					375
Thr	Pro	Ala	Asn	Lys	Leu	Lys	Asn	Lys	Glu	Asn	Val	Tyr	Thr	Pro
				380					385					390
Lys	Ser	Ala	Val	Lys	Asn	Glu	Glu	Tyr	Phe	Met	Phe	Pro	Glu	Pro
				395					400					405
Lys	Thr	Pro	Val	Asn	Lys	Asn	Gln	His	Lys	Arg	Glu	Ile	Leu	Thr
				410					415					420
Thr	Pro	Asn	Arg	Tyr	Thr	Thr	Pro	Ser	Lys	Ala	Arg	Asn	Gln	Cys
				425					430					435
Leu	Lys	Glu	Thr	Pro	Ile	Lys	Ile	Pro	Val	Asn	Ser	Thr	Gly	Thr
				440					445					450
Asp	Lys	Leu	Met	Thr	Gly	Val	Ile	Ser	Pro	Glu	Arg	Arg	Cys	Arg
				455					460					465
Ser	Val	Glu	Leu	Asp	Leu	Asn	Gln	Ala	His	Met	Glu	Glu	Thr	Pro
				470					475					480
Lys	Arg	Lys	Gly	Ala	Lys	Val	Phe	Gly	Ser	Leu	Glu	Arg	Gly	Leu
				485					490					495
Asp	Lys	Val	Ile	Thr	Val	Leu	Thr	Arg	Ser	Lys	Arg	Lys	Gly	Ser
				500					505					510
Ala	Arg	Asp	Gly	Pro	Arg	Arg	Leu	Lys	Leu	His	Tyr	Asn	Val	Thr
				515					520					525
Thr	Thr	Arg	Leu	Val	Asn	Pro	Asp	Gln	Leu	Leu	Asn	Glu	Ile	Met
				530					535					540
Ser	Ile	Leu	Pro	Lys	Lys	His	Val	Asp	Phe	Val	Gln	Lys	Gly	Tyr
				545					550					555
Thr	Leu	Lys	Cys	Gln	Thr	Gln	Ser	Asp	Phe	Gly	Lys	Val	Thr	Met
				560					565					570
Gln	Phe	Glu	Leu	Glu	Val	Cys	Gln	Leu	Gln	Lys	Pro	Asp	Val	Val
				575					580					585
Gly	Ile	Arg	Arg	Gln	Arg	Leu	Lys	Gly	Asp	Ala	Trp	Val	Tyr	Lys
				590					595					600
Arg	Leu	Val	Glu	Asp	Ile	Leu	Ser	Ser	Cys	Lys	Val			
				605					610					

<210> 20
<211> 311
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7525773CD1

<400> 20

Met	Leu	Ser	Glu	Val	Leu	Leu	Val	Ser	Ala	Pro	Gly	Lys	Val	Ile	
1				5					10						15
Leu	His	Gly	Glu	His	Ala	Val	Val	His	Gly	Lys	Val	Ala	Leu	Ala	
				20					25						30
Val	Ser	Leu	Asn	Leu	Arg	Thr	Phe	Leu	Arg	Leu	Gln	Pro	His	Ser	
				35					40						45
Asn	Gly	Lys	Val	Asp	Leu	Ser	Leu	Pro	Asn	Ile	Gly	Ile	Lys	Arg	
				50					55						60
Ala	Trp	Asp	Val	Ala	Arg	Leu	Gln	Ser	Leu	Asp	Thr	Ser	Phe	Leu	
				65					70						75
Glu	Gln	Gly	Asp	Val	Thr	Thr	Pro	Thr	Ser	Glu	Gln	Val	Glu	Lys	
				80					85						90
Leu	Lys	Glu	Val	Ala	Gly	Leu	Pro	Asp	Asp	Cys	Ala	Val	Thr	Glu	
				95					100						105
Arg	Leu	Ala	Val	Leu	Ala	Phe	Leu	Tyr	Leu	Tyr	Leu	Ser	Ile	Cys	
				110					115						120
Arg	Lys	Gln	Arg	Trp	Thr	Lys	Glu	Asp	Leu	Glu	Leu	Ile	Asn	Lys	
				125					130						135
Trp	Ala	Phe	Gln	Gly	Glu	Arg	Met	Ile	His	Gly	Asn	Pro	Ser	Gly	
				140					145						150
Val	Asp	Asn	Ala	Asp	Ser	Thr	Trp	Gly	Gly	Ala	Leu	Arg	Tyr	His	
				155					160						165
Gln	Gly	Lys	Ile	Ser	Ser	Leu	Lys	Arg	Ser	Pro	Ala	Leu	Gln	Ile	
				170					175						180
Leu	Leu	Thr	Asn	Ala	Lys	Val	Pro	Arg	Asn	Thr	Arg	Ala	Leu	Val	
				185					190						195
Ala	Gly	Val	Arg	Asn	Arg	Leu	Leu	Lys	Phe	Pro	Glu	Ile	Val	Ala	
				200					205						210
Pro	Leu	Leu	Thr	Ser	Ile	Asp	Ala	Ile	Ser	Leu	Glu	Cys	Glu	Arg	
				215					220						225
Val	Leu	Gly	Glu	Met	Gly	Glu	Ala	Pro	Ala	Pro	Glu	Gln	Tyr	Leu	
				230					235						240
Val	Leu	Glu	Glu	Leu	Ile	Asp	Met	Asn	Gln	His	His	Leu	Asn	Ala	
				245					250						255
Leu	Gly	Val	Gly	His	Ala	Ser	Leu	Asp	Gln	Leu	Cys	Gln	Val	Thr	
				260					265						270
Arg	Ala	Arg	Gly	Leu	His	Ser	Lys	Leu	Thr	Gly	Ala	Gly	Gly	Gly	
				275					280						285
Gly	Cys	Gly	Ile	Thr	Leu	Leu	Lys	Pro	Gly	Ile	Pro	Gly	Gly	Trp	
				290					295						300
Ser	Ser	Gln	Lys	Trp	Arg	Pro	Arg	Ser	Arg	Pro					
				305					310						

<210> 21

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7525861CD1

<400> 21

Met	Ser	Ser	Pro	Arg	Gly	Phe	Arg	Ala	Glu	Pro	Val	Asn	Asp	Tyr	
1				5					10						15
Glu	Gly	Asn	Asp	Ser	Glu	Ala	Glu	Asp	Leu	Asn	Phe	Arg	Glu	Thr	
				20					25						30
Leu	Pro	Ser	Ser	Ser	Gln	Glu	Asn	Thr	Pro	Arg	Ser	Lys	Val	Phe	
				35					40						45

Glu Asn Lys Val Asn Ser Glu Lys Val Lys Leu Ser Leu Arg Asn
 50 55 60
 Phe Pro His Asn Asp Tyr Glu Asp Val Phe Glu Glu Pro Ser Glu
 65 70 75
 Ser Gly Ser Asp Pro Ser Met Trp Thr Ala Arg Gly Pro Phe Arg
 80 85 90
 Arg Gly Arg Trp Ser Ser Glu Asp Glu Glu Ala Ala Gly Pro Ser
 95 100 105
 Gln Ala Leu Ser Pro Leu Leu Ser Asp Thr Arg Lys Ile Val Ser
 110 115 120
 Glu Gly Glu Leu Asp Gln Leu Ala Gln Ile Arg Pro Leu Ile Phe
 125 130 135
 Asn Phe His Glu Gln Thr Ala Ile Lys Asp Cys Leu Lys Ile Leu
 140 145 150
 Glu Glu Lys Thr Ala Ala Tyr Asp Ile Met Gln Glu Phe Met Phe
 155 160 165
 Asn Ile Met Asp Ile Val Ala Gln Met Arg Glu Gln Arg Ser Gly
 170 175 180
 Met Val Gln Thr Lys Glu Gln Tyr His Phe Cys Tyr Asp Ile Val
 185 190 195
 Leu Glu Val Leu Arg Lys Leu Leu Thr Leu Asp
 200 205 205

<210> 22

<211> 1125

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2509577CD1

<400> 22

Met Pro Asp Gln Asp Lys Lys Val Lys Thr Thr Glu Lys Ser Thr
 1 5 10 15
 Asp Lys Gln Gln Glu Ile Thr Ile Arg Asp Tyr Ser Asp Leu Lys
 20 25 30
 Arg Leu Arg Cys Leu Leu Asn Val Gln Ser Ser Lys Gln Gln Leu
 35 40 45
 Pro Ala Ile Asn Phe Asp Ser Ala Gln Asn Ser Met Thr Lys Ser
 50 55 60
 Glu Pro Ala Ile Arg Ala Gly Gly His Arg Ala Arg Gly Gln Trp
 65 70 75
 His Glu Ser Thr Glu Ala Val Glu Leu Glu Asn Phe Ser Ile Asn
 80 85 90
 Tyr Lys Asn Glu Arg Asn Phe Ser Lys His Pro Gln Arg Lys Leu
 95 100 105
 Phe Gln Glu Ile Phe Thr Ala Leu Val Lys Asn Arg Leu Ile Ser
 110 115 120
 Arg Glu Trp Val Asn Arg Ala Pro Ser Ile His Phe Leu Arg Val
 125 130 135
 Leu Ile Cys Leu Arg Leu Leu Met Arg Asp Pro Cys Tyr Gln Glu
 140 145 150
 Ile Leu His Ser Leu Gly Gly Ile Glu Asn Leu Ala Gln Tyr Met
 155 160 165
 Glu Ile Val Ala Asn Glu Tyr Leu Gly Tyr Gly Glu Glu Gln His
 170 175 180
 Thr Val Asp Lys Leu Val Asn Met Thr Tyr Ile Phe Gln Lys Leu
 185 190 195
 Ala Ala Val Lys Asp Gln Arg Glu Trp Val Thr Thr Ser Gly Ala
 200 205 210
 His Lys Thr Leu Val Asn Leu Leu Gly Ala Arg Asp Thr Asn Val
 215 220 225
 Leu Leu Gly Ser Leu Leu Ala Leu Ser Leu Ala Glu Ser Gln

230	235	240
Glu Cys Arg Glu Lys Ile Ser Glu Leu Asn Ile Val Glu Asn	Leu	
245	250	255
Leu Met Ile Leu His Glu Tyr Asp Leu Leu Ser Lys Arg Leu	Thr	
260	265	270
Ala Glu Leu Leu Arg Leu Leu Cys Ala Glu Pro Gln Val Lys	Glu	
275	280	285
Gln Val Lys Leu Tyr Glu Gly Ile Pro Val Leu Leu Ser Leu	Leu	
290	295	300
His Ser Asp His Leu Lys Leu Leu Trp Ser Ile Val Trp Ile	Leu	
305	310	315
Val Gln Val Cys Glu Asp Pro Glu Thr Ser Val Glu Ile Arg	Ile	
320	325	330
Trp Gly Gly Ile Lys Gln Leu Leu His Ile Leu Gln Gly Asp	Arg	
335	340	345
Asn Phe Val Ser Asp His Ser Ser Ile Gly Ser Leu Ser Ser	Ala	
350	355	360
Asn Ala Ala Gly Arg Ile Gln Gln Leu His Leu Ser Glu Asp	Leu	
365	370	375
Ser Pro Arg Glu Ile Gln Glu Asn Thr Phe Ser Leu Gln Ala	Ala	
380	385	390
Cys Cys Ala Ala Leu Thr Glu Leu Val Leu Asn Asp Thr Asn	Ala	
395	400	405
His Gln Val Val Gln Glu Asn Gly Val Tyr Thr Ile Ala Lys	Leu	
410	415	420
Ile Leu Pro Asn Lys Gln Lys Asn Ala Ala Lys Ser Asn Leu	Leu	
425	430	435
Gln Cys Tyr Ala Phe Arg Ala Leu Arg Phe Leu Phe Ser Met	Glu	
440	445	450
Arg Asn Arg Pro Leu Phe Lys Arg Leu Phe Pro Thr Asp Leu	Phe	
455	460	465
Glu Ile Phe Ile Asp Ile Gly His Tyr Val Arg Asp Ile Ser	Ala	
470	475	480
Tyr Glu Glu Leu Val Ser Lys Leu Asn Leu Leu Val Glu Asp	Glu	
485	490	495
Leu Lys Gln Ile Ala Glu Asn Ile Glu Ser Ile Asn Gln Asn	Lys	
500	505	510
Ala Pro Leu Lys Tyr Ile Gly Asn Tyr Ala Ile Leu Asp His	Leu	
515	520	525
Gly Ser Gly Ala Phe Gly Cys Val Tyr Lys Val Arg Lys His	Ser	
530	535	540
Gly Gln Asn Leu Leu Ala Met Lys Glu Val Asn Leu His Asn	Pro	
545	550	555
Ala Phe Gly Lys Asp Lys Lys Asp Arg Asp Ser Ser Val Arg	Asn	
560	565	570
Ile Val Ser Glu Leu Thr Ile Ile Lys Glu Gln Leu Tyr His	Pro	
575	580	585
Asn Ile Val Arg Tyr Tyr Lys Thr Phe Leu Glu Asn Asp Arg	Leu	
590	595	600
Tyr Ile Val Met Glu Leu Ile Glu Gly Ala Pro Leu Gly Glu	His	
605	610	615
Phe Ser Ser Leu Lys Glu Lys His His His Phe Thr Glu Glu	Arg	
620	625	630
Leu Trp Lys Ile Phe Ile Gln Leu Cys Leu Ala Leu Arg Tyr	Leu	
635	640	645
His Lys Glu Lys Arg Ile Val His Arg Asp Leu Thr Pro Asn	Asn	
650	655	660
Ile Met Leu Gly Asp Lys Asp Lys Val Thr Val Thr Asp Phe	Gly	
665	670	675
Leu Ala Lys Gln Lys Gln Glu Asn Ser Lys Leu Thr Ser Val	Val	
680	685	690
Gly Thr Ile Leu Tyr Ser Cys Pro Glu Val Leu Lys Ser Glu	Pro	
695	700	705
Tyr Gly Glu Lys Ala Asp Val Trp Ala Val Gly Cys Ile Leu	Tyr	

710	715	720
Gln Met Ala Thr Leu Ser Pro Pro Phe Tyr Ser Thr Asn Met	Leu	
725	730	735
Ser Leu Ala Thr Lys Ile Val Glu Ala Val Tyr Glu Pro Val	Pro	
740	745	750
Glu Gly Ile Tyr Ser Glu Lys Val Thr Asp Thr Ile Ser Arg	Cys	
755	760	765
Leu Thr Pro Asp Ala Glu Ala Arg Pro Asp Ile Val Glu Val	Ser	
770	775	780
Ser Met Ile Ser Asp Val Met Met Lys Tyr Leu Asp Asn Leu	Ser	
785	790	795
Thr Ser Gln Leu Ser Leu Glu Lys Lys Leu Glu Arg Glu Arg	Arg	
800	805	810
Arg Thr Gln Arg Tyr Phe Met Glu Ala Asn Arg Asn Thr Val	Thr	
815	820	825
Cys His His Glu Leu Ala Val Leu Ser His Glu Thr Phe Glu	Lys	
830	835	840
Ala Ser Leu Ser Ser Ser Ser Gly Ala Ala Ser Leu Lys	Ser	
845	850	855
Glu Leu Ser Glu Ser Ala Asp Leu Pro Pro Glu Gly Phe Gln	Ala	
860	865	870
Ser Tyr Gly Lys Asp Glu Asp Arg Ala Cys Asp Glu Ile Leu	Ser	
875	880	885
Asp Asp Asn Phe Asn Leu Glu Asn Ala Glu Lys Asp Thr Tyr	Ser	
890	895	900
Glu Val Asp Asp Glu Leu Asp Ile Ser Asp Asn Ser Ser Ser	Ser	
905	910	915
Ser Ser Ser Pro Leu Lys Glu Ser Thr Phe Asn Ile Leu Lys	Arg	
920	925	930
Ser Phe Ser Ala Ser Gly Gly Glu Arg Gln Ser Gln Thr Arg	Asp	
935	940	945
Phe Thr Gly Gly Thr Gly Ser Arg Pro Arg Pro Gly Pro Gln	Met	
950	955	960
Gly Thr Phe Leu Trp Gln Ala Ser Ala Gly Ile Ala Val Ser	Gln	
965	970	975
Arg Lys Val Arg Gln Ile Ser Asp Pro Ile Gln Gln Ile Leu	Ile	
980	985	990
Gln Leu His Lys Ile Ile Tyr Ile Thr Gln Leu Pro Pro Ala	Leu	
995	1000	1005
His His Asn Leu Lys Arg Arg Val Ile Glu Arg Phe Lys Lys	Ser	
1010	1015	1020
Leu Phe Ser Gln Gln Ser Asn Pro Cys Asn Leu Lys Ser Glu	Ile	
1025	1030	1035
Lys Lys Leu Ser Gln Gly Ser Pro Glu Pro Ile Glu Pro Asn	Phe	
1040	1045	1050
Phe Thr Ala Asp Tyr His Leu Leu His Arg Ser Ser Gly Gly	Asn	
1055	1060	1065
Ser Leu Ser Pro Asn Asp Pro Thr Gly Leu Pro Thr Ser Ile	Glu	
1070	1075	1080
Leu Glu Glu Gly Ile Thr Tyr Glu Gln Met Gln Thr Val Ile	Glu	
1085	1090	1095
Glu Val Leu Glu Glu Ser Gly Tyr Tyr Asn Phe Thr Ser Asn	Arg	
1100	1105	1110
Tyr His Ser Tyr Pro Trp Gly Thr Lys Asn His Pro Thr Lys	Arg	
1115	1120	1125

<210> 23
<211> 888
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 7505222CD1

<400> 23

Met Gln Ile Val Gly Ser Pro Gly Pro Gly Ala Ala Trp Pro Val
 1 5 10 15
 Lys Arg Val Val Phe Pro Asn Gly Glu Gln Phe Leu Leu Ser Val
 20 25 30
 Ala Thr Lys Lys Val Ile Cys Leu Cys Leu Gly Lys Ala Gly Arg
 35 40 45
 Lys Val Leu Ala Lys Lys Leu Ser Pro Leu Glu Thr Met Asp Lys
 50 55 60
 Tyr Asp Val Ile Lys Ala Ile Gly Gln Gly Ala Phe Gly Lys Ala
 65 70 75
 Tyr Leu Ala Lys Gly Lys Ser Asp Ser Lys His Cys Val Ile Lys
 80 85 90
 Glu Ile Asn Phe Glu Lys Met Pro Ile Gln Glu Lys Glu Ala Ser
 95 100 105
 Lys Lys Glu Val Ile Leu Leu Glu Lys Met Lys His Pro Asn Ile
 110 115 120
 Val Ala Phe Phe Asn Ser Phe Gln Glu Asn Gly Arg Leu Phe Ile
 125 130 135
 Val Met Glu Tyr Cys Asp Gly Gly Asp Leu Met Lys Arg Ile Asn
 140 145 150
 Arg Gln Arg Gly Val Leu Phe Ser Glu Asp Gln Ile Leu Gly Trp
 155 160 165
 Phe Val Gln Ile Ser Leu Gly Leu Lys His Ile His Asp Arg Lys
 170 175 180
 Ile Leu His Arg Asp Ile Lys Ala Gln Asn Ile Phe Leu Ser Lys
 185 190 195
 Asn Gly Met Val Ala Lys Leu Gly Asp Phe Gly Ile Ala Arg Val
 200 205 210
 Leu Asn Asn Ser Met Glu Leu Ala Arg Thr Cys Ile Gly Thr Pro
 215 220 225
 Tyr Tyr Leu Ser Pro Glu Ile Cys Gln Asn Lys Pro Tyr Asn Asn
 230 235 240
 Lys Thr Asp Ile Trp Ser Leu Gly Cys Val Leu Tyr Glu Leu Cys
 245 250 255
 Thr Leu Lys His Pro Phe Glu Gly Asn Asn Leu Gln Gln Leu Val
 260 265 270
 Leu Lys Ile Cys Gln Ala His Phe Ala Pro Ile Ser Pro Gly Phe
 275 280 285
 Ser Arg Glu Leu His Ser Leu Ile Ser Gln Leu Phe Gln Val Ser
 290 295 300
 Pro Arg Asp Arg Pro Ser Ile Asn Ser Ile Leu Lys Arg Pro Phe
 305 310 315
 Leu Glu Asn Leu Ile Pro Lys Tyr Leu Thr Pro Glu Val Ile Gln
 320 325 330
 Glu Glu Phe Ser His Met Leu Ile Cys Arg Ala Gly Ala Pro Ala
 335 340 345
 Ser Arg His Ala Gly Lys Val Val Gln Lys Cys Lys Ile Gln Lys
 350 355 360
 Val Arg Phe Gln Gly Lys Cys Pro Pro Arg Ser Arg Ile Ser Val
 365 370 375
 Pro Ile Lys Arg Asn Ala Ile Leu His Arg Asn Glu Trp Arg Pro
 380 385 390
 Pro Ala Gly Ala Gln Lys Ala Arg Ser Ile Lys Met Ile Glu Arg
 395 400 405
 Pro Lys Ile Ala Ala Val Cys Gly His Tyr Asp Tyr Tyr Tyr Ala
 410 415 420
 Gln Leu Asp Met Leu Arg Arg Arg Ala His Lys Pro Ser Tyr His
 425 430 435
 Pro Ile Pro Gln Glu Asn Thr Gly Val Glu Asp Tyr Gly Gln Glu
 440 445 450
 Thr Arg His Gly Pro Ser Pro Ser Gln Trp Pro Ala Glu Tyr Leu

455	460	465
Gln Arg Lys Phe Glu Ala Gln Gln Tyr	Lys Leu Lys Val Glu	Lys
470	475	480
Gln Leu Gly Leu Arg Pro Ser Ser Ala	Glu Pro Asn Tyr Asn	Gln
485	490	495
Arg Gln Glu Leu Arg Ser Asn Gly Glu	Glu Pro Arg Phe Gln	Glu
500	505	510
Leu Pro Phe Arg Lys Asn Glu Met Lys	Glu Gln Glu Tyr Trp	Lys
515	520	525
Gln Leu Glu Glu Ile Arg Gln Gln Tyr	His Asn Asp Met Lys	Glu
530	535	540
Ile Arg Lys Lys Met Gly Arg Glu Pro	Glu Asn Ser Lys	Ile
545	550	555
Ser His Lys Thr Tyr Leu Val Lys Lys	Ser Asn Leu Pro Val	His
560	565	570
Gln Asp Ala Ser Glu Gly Glu Ala Pro	Val Gln Asp Ile Glu	Lys
575	580	585
Asp Leu Lys Gln Met Arg Leu Gln Asn	Thr Lys Glu Ser Lys	Asn
590	595	600
Pro Glu Gln Lys Tyr Lys Ala Lys Gly	Val Lys Phe Glu Ile	Asn
605	610	615
Leu Asp Lys Cys Ile Ser Asp Glu Asn	Ile Leu Gln Glu Glu	Glu
620	625	630
Ala Met Asp Ile Pro Asn Glu Thr Leu	Thr Phe Glu Asp Gly	Met
635	640	645
Lys Phe Lys Glu Tyr Glu Cys Val Lys	Glu His Gly Asp Tyr	Thr
650	655	660
Asp Lys Ala Phe Glu Lys Leu His Cys	Pro Glu Ala Gly Phe	Ser
665	670	675
Thr Gln Thr Val Ala Ala Val Gly Asn	Arg Arg Gln Trp Asp	Gly
680	685	690
Gly Ala Pro Gln Thr Leu Leu Gln Met	Met Ala Val Ala Asp	Ile
695	700	705
Thr Ser Thr Cys Pro Thr Gly Pro Asp	Asn Gly Gln Val Ile	Val
710	715	720
Ile Glu Gly Ile Pro Gly Asn Arg Lys	Gln Trp Arg His Glu	Ala
725	730	735
Pro Gly Thr Leu Met Ser Val Leu Ala	Ala Ala His Leu Thr	Ser
740	745	750
Ser Ser Phe Ser Ala Asp Glu Glu Phe	Ala Met Gly Thr Leu	Lys
755	760	765
Gln Trp Leu Pro Lys Glu Glu Asp Glu	Gly Lys Val Glu Met	Val
770	775	780
Ser Gly Ile Glu Val Asp Glu Glu Gln	Leu Glu Pro Arg Ser	Asp
785	790	795
Asp Asp Asp Thr Asn Phe Glu Glu Ser	Glu Asp Glu Leu Arg	Asp
800	805	810
Glu Val Val Glu Tyr Leu Glu Lys Leu	Ala Thr Phe Lys Gly	Glu
815	820	825
Glu Lys Thr Glu Glu Ala Ser Ser Thr	Ser Lys Asp Ser Arg	Lys
830	835	840
Ser Arg Glu Arg Glu Gly Ile Ser Met	Gln Lys Ser Glu Glu	Leu
845	850	855
Arg Glu Gly Leu Glu Asn Ile Ser Thr	Thr Ser Asn Asp His	Ile
860	865	870
Cys Ile Thr Asp Glu Asp Gln Gly Thr	Ser Thr Thr Ser Gln	Asn
875	880	885
Ile Gln Val		

<210> 24
 <211> 487
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524408CD1

<400> 24

Met Gly Arg Ile Gly Ile Ser Cys Leu Phe Pro Ala Ser Trp His
 1 5 10 15
 Phe Ser Ile Ser Pro Val Gly Cys Pro Arg Ile Leu Asn Thr Asn
 20 25 30
 Leu Arg Gln Ile Met Val Ile Ser Val Leu Ala Ala Ala Val Ser
 35 40 45
 Leu Leu Tyr Phe Ser Val Val Ile Ile Arg Asn Lys Tyr Gly Arg
 50 55 60
 Leu Thr Arg Asp Lys Lys Phe Gln Arg Tyr Leu Ala Arg Val Thr
 65 70 75
 Asp Ile Glu Ala Thr Asp Thr Asn Asn Pro Asn Val Asn Tyr Gly
 80 85 90
 Ile Val Val Asp Cys Gly Ser Ser Gly Ser Arg Val Phe Val Tyr
 95 100 105
 Cys Trp Pro Arg His Asn Gly Asn Pro His Asp Leu Leu Asp Ile
 110 115 120
 Arg Gln Met Arg Asp Lys Asn Arg Lys Pro Val Val Met Lys Ile
 125 130 135
 Lys Pro Gly Ile Ser Glu Phe Ala Thr Ser Pro Glu Lys Val Ser
 140 145 150
 Asp Tyr Ile Ser Pro Leu Leu Asn Phe Ala Ala Glu His Val Pro
 155 160 165
 Arg Ala Lys His Lys Glu Thr Pro Leu Tyr Ile Leu Cys Thr Ala
 170 175 180
 Gly Met Arg Ile Leu Pro Glu Ser Gln Gln Lys Ala Ile Leu Glu
 185 190 195
 Asp Leu Leu Thr Asp Ile Pro Val His Phe Asp Phe Leu Phe Ser
 200 205 210
 Asp Ser His Ala Glu Val Ile Ser Gly Lys Gln Glu Gly Val Tyr
 215 220 225
 Ala Trp Ile Gly Ile Asn Phe Val Leu Gly Arg Phe Glu His Ile
 230 235 240
 Glu Asp Asp Asp Glu Ala Val Val Glu Val Asn Ile Pro Gly Ser
 245 250 255
 Val Ser Ser Glu Ala Ile Val Arg Lys Arg Thr Ala Gly Ile Leu
 260 265 270
 Asp Met Gly Gly Val Leu Thr Gln Ile Ala Tyr Glu Val Pro Lys
 275 280 285
 Thr Ala Ser Phe Ala Ser Ser Gln Gln Glu Glu Val Ala Lys Asn
 290 295 300
 Leu Leu Ala Glu Phe Asn Leu Gly Cys Asp Val His Gln Thr Glu
 305 310 315
 His Val Tyr Arg Val Tyr Val Ala Thr Phe Phe Gly Phe Gly
 320 325 330
 Asn Ala Ala Arg Gln Arg Tyr Glu Asp Arg Ile Phe Ala Asn Thr
 335 340 345
 Ile Gln Lys Asn Arg Leu Leu Gly Lys Gln Thr Gly Leu Thr Pro
 350 355 360
 Asp Met Pro Tyr Leu Asp Pro Cys Leu Pro Leu Asp Ile Lys Asp
 365 370 375
 Glu Ile Gln Gln Asn Gly Gln Thr Ile Tyr Leu Arg Gly Thr Gly
 380 385 390
 Asp Phe Asp Leu Cys Arg Glu Thr Ile Gln Pro Phe Met Asn Lys
 395 400 405
 Thr Asn Glu Thr Gln Thr Ser Leu Asn Gly Val Tyr Gln Pro Pro
 410 415 420
 Ile His Phe Gln Asn Ser Glu Phe Tyr Gly Phe Ser Glu Phe Tyr
 425 430 435
 Tyr Cys Thr Glu Asp Val Leu Arg Met Gly Gly Asp Tyr Asn Ala

440	445	450
Ala Lys Phe Thr Lys	Ala Ala Lys Asp	Tyr Cys Ala Thr Lys
455	460	Trp
Ser Ile Leu Arg Glu	Arg Phe Asp Arg	Gly Leu Tyr Ala Ser
470	475	His
Ala Asp Leu His Arg	Leu Lys	
485		

<210> 25
<211> 1309
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526163CD1

<400> 25		
Met Asp Glu Ser Ser	Leu Leu Arg Arg	Gly Leu Gln Lys Glu
1 5	10	15
Leu Ser Leu Pro Arg	Arg Gly Arg Gly	Cys Arg Ser Gly Asn Arg
20	25	30
Lys Ser Leu Val Val	Gly Thr Pro Ser Pro	Thr Leu Ser Arg Pro
35	40	45
Leu Ser Pro Leu Ser	Val Pro Thr Ala Gly	Ser Ser Pro Leu Asp
50	55	60
Ser Pro Arg Asn Phe	Ser Ala Ala Ser Ala	Leu Asn Phe Pro Phe
65	70	75
Ala Arg Arg Ala Asp	Gly Arg Arg Trp	Ser Leu Ala Ser Leu Pro
80	85	90
Ser Ser Gly Tyr Gly	Thr Asn Thr Pro	Ser Ser Thr Leu Ser Ser
95	100	105
Ser Ser Ser Arg	Glu Arg Leu His	Gln Leu Pro Phe Gln Pro
110	115	120
Thr Pro Asp Glu	Leu His Phe Leu Ser	Lys His Phe Arg Ser Ser
125	130	135
Glu Asn Val Leu Asp	Glu Glu Gly Gly	Arg Ser Pro Arg Leu Arg
140	145	150
Pro Arg Ser Arg	Ser Leu Ser Pro Gly	Arg Ala Thr Gly Thr Phe
155	160	165
Asp Asn Glu Ile Val	Met Met Asn His	Val Tyr Arg Glu Arg Phe
170	175	180
Pro Lys Ala Thr Ala	Gln Met Glu Gly	Arg Leu Gln Glu Phe Leu
185	190	195
Thr Ala Tyr Ala Pro	Gly Ala Arg Leu	Ala Leu Ala Asp Gly Val
200	205	210
Leu Gly Phe Ile His	His Gln Ile Val	Glu Leu Ala Arg Asp Cys
215	220	225
Leu Ala Lys Ser	Gly Glu Asn Leu Val	Thr Ser Arg Tyr Phe Leu
230	235	240
Glu Met Gln Glu	Lys Leu Glu Arg Leu	Leu Gln Asp Ala His Glu
245	250	255
Arg Ser Asp Ser	Glu Glu Val Ser Phe	Ile Val Gln Leu Val Arg
260	265	270
Lys Leu Leu Ile Ile	Ile Ser Arg Pro	Ala Arg Leu Leu Glu Cys
275	280	285
Leu Glu Phe Asp	Pro Glu Glu Phe Tyr	His Leu Leu Glu Ala Ala
290	295	300
Glu Gly His Ala	Arg Glu Gly Gln Gly	Ile Lys Thr Asp Leu Pro
305	310	315
Gln Tyr Ile Ile	Gly Gln Leu Gly Leu	Ala Lys Asp Pro Leu Glu
320	325	330
Glu Met Val Pro	Leu Ser His Leu Glu	Glu Glu Gln Pro Pro Ala
335	340	345

Pro Glu Ser Pro Glu Ser Arg Ala Leu Val Gly Gln Ser Arg Arg
 350 355 360
 Lys Pro Cys Glu Ser Asp Phe Glu Thr Ile Lys Leu Ile Ser Asn
 365 370 375
 Gly Ala Tyr Gly Ala Val Tyr Leu Val Arg His Arg Asp Thr Arg
 380 385 390
 Gln Arg Phe Ala Ile Lys Lys Ile Asn Lys Gln Asn Leu Ile Leu
 395 400 405
 Arg Asn Gln Val Gln Gln Val Phe Val Glu Arg Asp Ile Leu Thr
 410 415 420
 Phe Ala Glu Asn Pro Phe Val Val Ser Met Phe Cys Ser Phe Glu
 425 430 435
 Thr Arg Arg His Leu Cys Met Val Met Glu Tyr Val Glu Gly Gly
 440 445 450
 Asp Cys Ala Thr Leu Leu Lys Asn Met Gly Pro Leu Pro Val Asp
 455 460 465
 Met Ala Arg Leu Tyr Phe Ala Glu Thr Val Leu Ala Leu Glu Tyr
 470 475 480
 Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro Asp Asn
 485 490 495
 Leu Leu Ile Thr Ser Leu Gly His Ile Lys Leu Thr Asp Phe Gly
 500 505 510
 Leu Ser Lys Ile Gly Leu Met Ser Met Ala Thr Asn Leu Tyr Glu
 515 520 525
 Gly His Ile Glu Lys Asp Ala Arg Glu Phe Ile Asp Lys Gln Val
 530 535 540
 Cys Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Phe Arg Gln
 545 550 555
 Gly Tyr Gly Lys Pro Val Asp Trp Trp Ala Met Gly Val Val Leu
 560 565 570
 Tyr Glu Phe Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro
 575 580 585
 Glu Glu Leu Phe Gly Gln Val Val Ser Asp Glu Ile Met Trp Pro
 590 595 600
 Glu Gly Asp Glu Ala Leu Pro Ala Asp Ala Gln Asp Leu Ile Thr
 605 610 615
 Arg Leu Leu Arg Gln Ser Pro Leu Asp Arg Leu Gly Thr Gly
 620 625 630
 Thr His Glu Val Lys Gln His Pro Phe Phe Leu Ala Leu Asp Trp
 635 640 645
 Ala Gly Leu Leu Arg His Lys Ala Glu Phe Val Pro Gln Leu Glu
 650 655 660
 Ala Glu Asp Asp Thr Ser Tyr Phe Asp Thr Arg Ser Glu Arg Tyr
 665 670 675
 Arg His Leu Gly Ser Glu Asp Asp Glu Thr Asn Asp Glu Glu Ser
 680 685 690
 Ser Thr Glu Ile Pro Gln Phe Ser Ser Cys Ser His Arg Phe Ser
 695 700 705
 Lys Val Tyr Ser Ser Ser Glu Phe Leu Ala Val Gln Pro Thr Pro
 710 715 720
 Thr Phe Ala Glu Arg Ser Phe Ser Glu Asp Arg Glu Glu Gly Trp
 725 730 735
 Glu Arg Ser Glu Val Asp Tyr Gly Arg Arg Leu Ser Ala Asp Ile
 740 745 750
 Arg Leu Arg Ser Trp Thr Ser Ser Gly Ser Ser Cys Gln Ser Ser
 755 760 765
 Ser Ser Gln Pro Glu Arg Gly Pro Ser Pro Ser Leu Leu Asn Thr
 770 775 780
 Ile Ser Leu Asp Thr Met Pro Lys Phe Ala Phe Ser Ser Glu Asp
 785 790 795
 Glu Gly Val Gly Pro Gly Pro Ala Gly Pro Lys Arg Pro Val Phe
 800 805 810
 Ile Leu Gly Glu Pro Asp Pro Pro Pro Ala Ala Thr Pro Val Met
 815 820 825

Pro Lys Pro Ser Ser Leu Ser Ala Asp Thr Ala Ala Leu Ser His
 830 835 840
 Ala Arg Leu Arg Ser Asn Ser Ile Gly Ala Arg His Ser Thr Pro
 845 850 855
 Arg Pro Leu Asp Ala Gly Arg Gly Arg Arg Leu Gly Gly Pro Arg
 860 865 870
 Asp Pro Ala Pro Glu Lys Ser Arg Ala Ser Ser Ser Gly Gly Ser
 875 880 885
 Gly Gly Gly Ser Gly Gly Arg Val Pro Lys Ser Ala Ser Val Ser
 890 895 900
 Ala Leu Ser Leu Ile Ile Thr Ala Asp Asp Gly Ser Gly Gly Pro
 905 910 915
 Leu Met Ser Pro Leu Ser Pro Arg Ser Leu Ser Ser Asn Pro Ser
 920 925 930
 Ser Arg Asp Ser Ser Pro Ser Arg Asp Pro Ser Pro Val Cys Gly
 935 940 945
 Ser Leu Arg Pro Pro Ile Val Ile His Ser Ser Gly Lys Lys Tyr
 950 955 960
 Gly Phe Ser Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Ser Asp
 965 970 975
 Val Tyr Thr Val His His Val Val Trp Ser Val Glu Asp Gly Ser
 980 985 990
 Pro Ala Gln Glu Ala Gly Leu Arg Ala Gly Asp Leu Ile Thr His
 995 1000 1005
 Ile Asn Gly Glu Ser Val Leu Gly Leu Val His Met Asp Val Val
 1010 1015 1020
 Glu Leu Leu Leu Lys Ser Gly Asn Lys Ile Ser Leu Arg Thr Thr
 1025 1030 1035
 Ala Leu Glu Asn Thr Ser Ile Lys Val Gly Pro Ala Arg Lys Asn
 1040 1045 1050
 Val Ala Lys Gly Arg Met Ala Arg Arg Ser Lys Arg Ser Arg Arg
 1055 1060 1065
 Arg Glu Thr Gln Asp Arg Arg Lys Ser Leu Phe Lys Lys Ile Ser
 1070 1075 1080
 Lys Gln Thr Ser Val Leu His Thr Ser Arg Ser Phe Ser Ser Gly
 1085 1090 1095
 Leu His His Ser Leu Ser Ser Ser Glu Ser Leu Pro Gly Ser Pro
 1100 1105 1110
 Thr His Ser Leu Ser Pro Ser Pro Thr Thr Pro Cys Arg Ser Pro
 1115 1120 1125
 Ala Pro Asp Val Pro Ala Asp Thr Thr Ala Ser Pro Pro Ser Ala
 1130 1135 1140
 Ser Pro Ser Ser Ser Pro Ala Ser Pro Ala Ala Ala Gly His
 1145 1150 1155
 Thr Arg Pro Ser Ser Leu His Gly Leu Ala Ala Lys Leu Gly Pro
 1160 1165 1170
 Pro Arg Pro Lys Thr Gly Arg Arg Lys Ser Thr Ser Ser Ile Pro
 1175 1180 1185
 Pro Ser Pro Leu Ala Cys Pro Pro Ile Ser Ala Pro Pro Pro Arg
 1190 1195 1200
 Ser Pro Ser Pro Leu Pro Gly His Pro Pro Ala Pro Ala Arg Ser
 1205 1210 1215
 Pro Arg Leu Arg Arg Gly Gln Ser Ala Asp Lys Leu Gly Thr Gly
 1220 1225 1230
 Glu Arg Leu Asp Gly Glu Ala Gly Arg Arg Thr Arg Gly Pro Glu
 1235 1240 1245
 Ala Glu Leu Val Val Met Arg Arg Leu His Leu Ser Glu Arg Arg
 1250 1255 1260
 Asp Ser Phe Lys Lys Gln Glu Ala Val Gln Glu Val Ser Phe Asp
 1265 1270 1275
 Glu Pro Gln Glu Glu Ala Thr Gly Leu Pro Thr Ser Val Pro Gln
 1280 1285 1290
 Ile Ala Val Glu Gly Glu Glu Ala Val Pro Val Ala Leu Gly Pro
 1295 1300 1305

Thr Gly Arg Asp

<210> 26
 <211> 1331
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526158CD1

<400> 26

Met	Lys	Ser	Arg	Arg	Asp	Lys	Leu	His	Ile	Pro	Ala	Leu	Thr	Leu	
1						5				10					15
Asp	Leu	Ser	Pro	Ser	Ser	Gln	Ser	Pro	Ser	Leu	Leu	Gly	Pro	Ser	
						20				25					30
Ser	Pro	Cys	Ser	Pro	Cys	Ser	Pro	Ser	Leu	Gly	Leu	His	Pro	Trp	
						35				40					45
Ser	Cys	Arg	Ser	Gly	Asn	Arg	Lys	Ser	Leu	Val	Val	Gly	Thr	Pro	
					50					55					60
Ser	Pro	Thr	Leu	Ser	Arg	Pro	Leu	Ser	Pro	Leu	Ser	Val	Pro	Thr	
					65					70					75
Ala	Gly	Ser	Ser	Pro	Leu	Asp	Ser	Pro	Arg	Asn	Phe	Ser	Ala	Ala	
					80					85					90
Ser	Ala	Leu	Asn	Phe	Pro	Phe	Ala	Arg	Arg	Ala	Asp	Gly	Arg	Arg	
					95					100					105
Trp	Ser	Leu	Ala	Ser	Leu	Pro	Ser	Ser	Gly	Tyr	Gly	Thr	Asn	Thr	
					110					115					120
Pro	Ser	Ser	Thr	Leu	Ser	Ser	Ser	Ser	Ser	Arg	Glu	Arg	Leu		
					125					130					135
His	Gln	Leu	Pro	Phe	Gln	Pro	Thr	Pro	Asp	Glu	Leu	His	Phe	Leu	
					140					145					150
Ser	Lys	His	Phe	Arg	Ser	Ser	Glu	Asn	Val	Leu	Asp	Glu	Glu	Gly	
					155					160					165
Gly	Arg	Ser	Pro	Arg	Leu	Arg	Pro	Arg	Ser	Arg	Ser	Leu	Ser	Pro	
					170					175					180
Gly	Arg	Ala	Thr	Gly	Thr	Phe	Asp	Asn	Glu	Ile	Val	Met	Met	Asn	
					185					190					195
His	Val	Tyr	Arg	Glu	Arg	Phe	Pro	Lys	Ala	Thr	Ala	Gln	Met	Glu	
					200					205					210
Gly	Arg	Leu	Gln	Glu	Phe	Leu	Thr	Ala	Tyr	Ala	Pro	Gly	Ala	Arg	
					215					220					225
Leu	Ala	Leu	Ala	Asp	Gly	Val	Leu	Gly	Phe	Ile	His	His	Gln	Ile	
					230					235					240
Val	Glu	Leu	Ala	Arg	Asp	Cys	Leu	Ala	Lys	Ser	Gly	Glu	Asn	Leu	
					245					250					255
Val	Thr	Ser	Arg	Tyr	Phe	Leu	Glu	Met	Gln	Glu	Lys	Leu	Glu	Arg	
					260					265					270
Leu	Leu	Gln	Asp	Ala	His	Glu	Arg	Ser	Asp	Ser	Glu	Glu	Val	Ser	
					275					280					285
Phe	Ile	Val	Gln	Leu	Val	Arg	Lys	Leu	Leu	Ile	Ile	Ile	Ser	Arg	
					290					295					300
Pro	Ala	Arg	Leu	Leu	Glu	Cys	Leu	Glu	Phe	Asp	Pro	Glu	Glu	Phe	
					305					310					315
Tyr	His	Leu	Leu	Glu	Ala	Ala	Glu	Gly	His	Ala	Arg	Glu	Gly	Gln	
					320					325					330
Gly	Ile	Lys	Thr	Asp	Leu	Pro	Gln	Tyr	Ile	Ile	Gly	Gln	Leu	Gly	
					335					340					345
Leu	Ala	Lys	Asp	Pro	Leu	Glu	Glu	Met	Val	Pro	Leu	Ser	His	Leu	
					350					355					360
Glu	Glu	Glu	Gln	Pro	Pro	Ala	Pro	Glu	Ser	Pro	Glu	Ser	Arg	Ala	
					365					370					375
Leu	Val	Gly	Gln	Ser	Arg	Arg	Lys	Pro	Cys	Glu	Ser	Asp	Phe	Glu	

380	385	390
Thr Ile Lys Leu Ile Ser Asn Gly Ala	Tyr Gly Ala Val Tyr	Leu
395	400	405
Val Arg His Arg Asp Thr Arg Gln Arg	Phe Ala Ile Lys Lys	Ile
410	415	420
Asn Lys Gln Asn Leu Ile Leu Arg Asn	Gln Ile Gln Gln Val	Phe
425	430	435
Val Glu Arg Asp Ile Leu Thr Phe Ala	Glu Asn Pro Phe Val	Val
440	445	450
Ser Met Phe Cys Ser Phe Glu Thr Arg	Arg His Leu Cys Met	Val
455	460	465
Met Glu Tyr Val Glu Gly Gly Asp Cys	Ala Thr Leu Leu Lys	Asn
470	475	480
Met Gly Pro Leu Pro Val Asp Met Ala	Arg Leu Tyr Phe Ala	Glu
485	490	495
Thr Val Leu Ala Leu Glu Tyr Leu His	Asn Tyr Gly Ile Val	His
500	505	510
Arg Asp Leu Lys Pro Asp Asn Leu Leu	Ile Thr Ser Leu Gly	His
515	520	525
Ile Lys Leu Thr Asp Phe Gly Leu Ser	Lys Ile Gly Leu Met	Ser
530	535	540
Met Ala Thr Asn Leu Tyr Glu Gly His	Ile Glu Lys Asp Ala	Arg
545	550	555
Glu Phe Ile Asp Lys Gln Val Cys Gly	Thr Pro Glu Tyr Ile	Ala
560	565	570
Pro Glu Val Ile Phe Arg Gln Gly Tyr	Gly Lys Pro Val Asp	Trp
575	580	585
Trp Ala Met Gly Val Val Leu Tyr Glu	Phe Leu Val Gly Cys	Val
590	595	600
Pro Phe Phe Gly Asp Thr Pro Glu Glu	Leu Phe Gly Gln Val	Val
605	610	615
Ser Asp Glu Ile Met Trp Pro Glu Gly	Asp Glu Ala Leu Pro	Ala
620	625	630
Asp Ala Gln Asp Leu Ile Thr Arg Leu	Leu Arg Gln Ser Pro	Leu
635	640	645
Asp Arg Leu Gly Thr Gly Gly Thr His	Glu Val Lys Gln His	Pro
650	655	660
Phe Phe Leu Ala Leu Asp Trp Ala Gly	Leu Leu Arg His Lys	Ala
665	670	675
Glu Phe Val Pro Gln Leu Glu Ala Glu	Asp Asp Thr Ser Tyr	Phe
680	685	690
Asp Thr Arg Ser Glu Arg Tyr Arg His	Leu Gly Ser Glu Asp	Asp
695	700	705
Glu Thr Asn Asp Glu Glu Ser Ser Thr	Glu Ile Pro Gln Phe	Ser
710	715	720
Ser Cys Ser His Arg Phe Ser Lys Val	Tyr Ser Ser Ser Glu	Phe
725	730	735
Leu Ala Val Gln Pro Thr Pro Thr Phe	Ala Glu Arg Ser Phe	Ser
740	745	750
Glu Asp Arg Glu Glu Gly Trp Glu Arg	Ser Glu Val Asp Tyr	Gly
755	760	765
Arg Arg Leu Ser Ala Asp Ile Arg Leu	Arg Ser Trp Thr Ser	Ser
770	775	780
Gly Ser Ser Cys Gln Ser Ser Ser Ser	Gln Pro Glu Arg Gly	Pro
785	790	795
Ser Pro Ser Leu Leu Asn Thr Ile Ser	Leu Asp Thr Met Pro	Lys
800	805	810
Phe Ala Phe Ser Ser Glu Asp Glu Gly	Val Gly Pro Gly Pro	Ala
815	820	825
Gly Pro Lys Arg Pro Val Phe Ile Leu	Gly Glu Pro Asp Pro	Pro
830	835	840
Pro Ala Ala Thr Pro Val Met Pro Lys	Pro Ser Ser Leu Ser	Ala
845	850	855
Asp Thr Ala Ala Leu Ser His Ala Arg	Leu Arg Ser Asn Ser	Ile

860	865	870
Gly Ala Arg His Ser Thr Pro Arg Pro	Leu Asp Ala Gly Arg	Gly
875	880	885
Arg Arg Leu Gly Gly Pro Arg Asp Pro	Ala Pro Glu Lys Ser	Arg
890	895	900
Ala Ser Ser Ser Gly Gly Ser Gly Gly	Gly Ser Gly Gly Arg	Val
905	910	915
Pro Lys Ser Ala Ser Val Ser Ala Leu	Ser Leu Ile Ile Thr	Ala
920	925	930
Asp Asp Gly Ser Gly Gly Pro Leu Met	Ser Pro Leu Ser Pro	Arg
935	940	945
Ser Leu Ser Ser Asn Pro Ser Ser Arg	Asp Ser Ser Pro	Ser Arg
950	955	960
Asp Pro Ser Pro Val Cys Gly Ser Leu	Arg Pro Pro Ile Val	Ile
965	970	975
His Ser Ser Gly Lys Lys Tyr Gly Phe	Ser Leu Arg Ala Ile	Arg
980	985	990
Val Tyr Met Gly Asp Ser Asp Val Tyr	Thr Val His His Val	Val
995	1000	1005
Trp Ser Val Glu Asp Gly Ser Pro Ala	Gln Glu Ala Gly	Leu Arg
1010	1015	1020
Ala Gly Asp Leu Ile Thr His Ile Asn	Gly Glu Ser Val	Leu Gly
1025	1030	1035
Leu Val His Met Asp Val Val Glu Leu	Leu Leu Lys Ser	Gly Asn
1040	1045	1050
Lys Ile Ser Leu Arg Thr Thr Ala Leu	Glu Asn Thr Ser	Ile Lys
1055	1060	1065
Val Gly Pro Ala Arg Lys Asn Val Ala	Lys Gly Arg Met	Ala Arg
1070	1075	1080
Arg Ser Lys Arg Ser Arg Arg Arg	Glu Thr Gln Asp Arg	Arg Lys
1085	1090	1095
Ser Leu Phe Lys Lys Ile Ser Lys Gln	Thr Ser Val Leu His	Thr
1100	1105	1110
Ser Arg Ser Phe Ser Ser Gly Leu His	His Ser Leu Ser Ser	Ser
1115	1120	1125
Glu Ser Leu Pro Gly Ser Pro Thr His	Ser Leu Ser Pro Ser	Pro
1130	1135	1140
Thr Thr Pro Cys Arg Ser Pro Ala Pro	Asp Val Pro Ala Asp	Thr
1145	1150	1155
Thr Ala Ser Pro Pro Ser Ala Ser Pro	Ser Ser Ser Pro	Ala
1160	1165	1170
Ser Pro Ala Ala Ala Gly His Thr Arg	Pro Ser Ser Leu His	Gly
1175	1180	1185
Leu Ala Ala Lys Leu Gly Pro Pro Arg	Pro Lys Thr Gly Arg	Arg
1190	1195	1200
Lys Ser Thr Ser Ser Ile Pro Pro Ser	Pro Leu Ala Cys Pro	Pro
1205	1210	1215
Ile Ser Ala Pro Pro Pro Arg Ser Pro	Ser Pro Leu Pro Gly	His
1220	1225	1230
Pro Pro Ala Pro Ala Arg Ser Pro Arg	Leu Arg Arg Gly Gln	Ser
1235	1240	1245
Ala Asp Lys Leu Gly Thr Gly Glu Arg	Leu Asp Gly Glu Ala	Gly
1250	1255	1260
Arg Arg Thr Arg Gly Pro Glu Ala Glu	Leu Val Val Met	Arg Arg
1265	1270	1275
Leu His Leu Ser Glu Arg Arg Asp Ser	Phe Lys Lys Gln Glu	Ala
1280	1285	1290
Val Gln Glu Val Ser Phe Asp Glu Pro	Gln Glu Glu Ala Thr	Gly
1295	1300	1305
Leu Pro Thr Ser Val Pro Gln Ile Ala	Val Glu Gly Glu Glu	Ala
1310	1315	1320
Val Pro Val Ala Leu Gly Pro Thr Gly	Arg Asp	
1325	1330	

<210> 27
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7519807CD1

<400> 27

Met	Tyr	Ser	Leu	Asn	Gln	Glu	Ile	Lys	Ala	Phe	Ser	Arg	Asn	Asn
1				5				10					15	
Pro	Arg	Lys	Gln	Cys	Thr	Arg	Val	Thr	Thr	Leu	Thr	Gly	Lys	Lys
				20				25					30	
Ile	Ile	Glu	Thr	Trp	Lys	Asp	Ala	Arg	Ile	His	Val	Val	Glu	Glu
				35				40					45	
Val	Glu	Pro	Ser	Ser	Gly	Gly	Gly	Cys	Gly	Tyr	Val	Gln	Asp	Leu
	50							55					60	
Ser	Ser	Asp	Gln	Gln	Val	Gly	Val	Ile	Lys	Pro	Trp	Leu	Leu	Leu
				65				70					75	
Gly	Asp	Ser	Tyr	Ser										
				80										

<210> 28
 <211> 495
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526180CD1

<400> 28

Met	Cys	Gln	Ala	Pro	Cys	Trp	Arg	Ala	Gly	Gly	Ser	Gly	Leu	Gly
1				5				10					15	
Arg	Cys	Ser	Leu	Cys	Arg	Ser	Cys	Ser	Leu	Ala	Arg	Phe	Pro	Arg
				20				25					30	
Leu	Pro	Ser	Phe	Pro	Pro	Pro	Gly	Arg	Leu	Arg	Ala	Gly	Val	Cys
				35				40					45	
Ala	Arg	Glu	Gly	Glu	Gly	Val	Gly	Gly	Val	Gly	Gly	Gly	Val	Pro
				50				55					60	
Val	Pro	Lys	Arg	Pro	Ala	Glu	Gly	Gly	Gly	Cys	Glu	Gly	Leu	
				65				70					75	
Arg	Glu	Ala	Met	Asp	Val	Glu	Arg	Leu	Gln	Glu	Ala	Leu	Lys	Asp
				80				85					90	
Phe	Glu	Lys	Arg	Gly	Lys	Lys	Glu	Val	Cys	Pro	Val	Leu	Asp	Gln
				95				100					105	
Phe	Leu	Cys	His	Val	Ala	Lys	Thr	Gly	Glu	Thr	Met	Ile	Gln	Trp
				110				115					120	
Ser	Gln	Phe	Lys	Gly	Tyr	Phe	Ile	Phe	Lys	Leu	Glu	Lys	Val	Met
				125				130					135	
Asp	Asp	Phe	Arg	Thr	Ser	Ala	Pro	Glu	Pro	Arg	Gly	Pro	Pro	Asn
				140				145					150	
Pro	Asn	Val	Glu	Tyr	Ile	Pro	Phe	Asp	Glu	Met	Lys	Glu	Arg	Ile
				155				160					165	
Leu	Lys	Ile	Val	Thr	Gly	Phe	Asn	Gly	Ile	Pro	Phe	Thr	Ile	Gln
				170				175					180	
Arg	Leu	Cys	Glu	Leu	Leu	Thr	Asp	Pro	Arg	Arg	Asn	Tyr	Thr	Gly
				185				190					195	
Thr	Asp	Lys	Phe	Leu	Arg	Gly	Val	Glu	Lys	Asn	Val	Met	Val	Val
				200				205					210	
Ser	Cys	Val	Tyr	Pro	Ser	Ser	Glu	Lys	Asn	Asn	Ser	Asn	Ser	Leu
				215				220					225	
Asn	Arg	Met	Asn	Gly	Val	Met	Phe	Pro	Gly	Asn	Ser	Pro	Ser	Tyr

230	235	240
Thr Glu Arg Ser Asn Ile Asn Gly Pro Gly	Thr Pro Arg Pro	Leu
245	250	255
Asn Arg Pro Lys Val Ser Leu Ser Ala Pro	Met Thr Thr Asn	Gly
260	265	270
Leu Pro Glu Ser Thr Asp Ser Lys Glu Ala	Asn Leu Gln Gln	Asn
275	280	285
Glu Glu Lys Asn His Ser Asp Ser Ser Thr	Ser Glu Ser Glu	Val
290	295	300
Ser Ser Val Ser Pro Leu Lys Asn Lys His	Pro Asp Glu Asp	Ala
305	310	315
Val Glu Ala Glu Gly His Glu Val Lys Arg	Leu Arg Phe Asp	Lys
320	325	330
Glu Gly Glu Val Arg Glu Thr Ala Ser Gln	Thr Thr Ser Ser	Glu
335	340	345
Ile Ser Ser Val Met Val Gly Glu Thr	Glu Ala Ser Ser Ser	Ser
350	355	360
Gln Asp Lys Asp Lys Asp Ser Arg Cys	Thr Arg Gln His Cys	Thr
365	370	375
Glu Glu Asp Glu Glu Glu Asp Glu Glu	Glu Glu Glu Ser	Phe
380	385	390
Met Thr Ser Arg Glu Met Ile Pro Glu Arg	Lys Asn Gln Glu	Lys
395	400	405
Glu Ser Asp Asp Ala Leu Thr Val Asn Glu	Glu Thr Ser Glu	Glu
410	415	420
Asn Asn Gln Met Glu Glu Ser Asp Val Ser	Gln Ala Glu Lys	Asp
425	430	435
Leu Leu His Ser Glu Gly Ser Glu Asn Glu	Gly Pro Val Ser	Ser
440	445	450
Ser Ser Ser Asp Cys Arg Glu Thr Glu Glu	Leu Val Gly Ser	Asn
455	460	465
Ser Ser Lys Thr Gly Glu Ile Leu Ser Glu	Ser Ser Met Glu	Asn
470	475	480
Asp Asp Glu Ala Thr Glu Val Thr Asp Glu	Pro Met Glu Gln	Asp
485	490	495

<210> 29
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526185CD1

<400> 29

Met Ala His Ser Pro Val Gln Ser Gly	Leu Pro Gly	Met Gln Asn	
1	5	10	15
Leu Lys Ala Asp Pro Glu Glu Leu Phe	Thr Lys Leu Glu Lys Ile		
20	25		30
Gly Lys Gly Ser Phe Gly Glu Val Phe	Lys Gly Ile Asp Asn Arg		
35	40		45
Thr Gln Lys Val Val Ala Ile Lys Ile	Ile Asp Leu Glu Ala		
50	55		60
Glu Asp Glu Ile Glu Asp Ile Gln Gln	Glu Ile Thr Val Leu	Ser	
65	70		75
Gln Cys Asp Ser Pro Tyr Val Thr Lys	Tyr Tyr Gly Ser Tyr	Leu	
80	85		90
Lys Asp Thr Lys Leu Trp Ile Ile Met	Glu Tyr Leu Gly Gly	Gly	
95	100		105
Ser Ala Leu Asp Leu Leu Glu Pro Gly	Pro Leu Asp Glu Thr	Gln	
110	115		120
Ile Ala Thr Ile Leu Arg Glu Ile Leu	Lys Gly Leu Asp Tyr	Leu	

125	130	135
His Ser Glu Lys Lys Ile His Arg Asp Ile Lys Gly Arg His Leu		
140	145	150
Val Pro Gly His Asn Ser Tyr		
155		

<210> 30

<211> 305

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526192CD1

<400> 30

Met Asp Phe Asp Lys Lys Gly Gly Lys Glu Thr Glu Glu Gly			
1	5	10	15
Arg Arg Met Ser Lys Ala Gly Gly Arg Ser Ser His Gly Ile			
20	25	30	
Arg Ser Ser Gly Thr Ser Ser Gly Val Leu Met Val Gly Pro Asn			
35	40	45	
Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu			
50	55	60	
Arg Leu Gly Lys Asn Leu Tyr Thr Asn Glu Tyr Val Ala Ile Lys			
65	70	75	
Leu Val Ser Arg Pro Leu His Pro Thr Pro Ala Asp Val Pro Pro			
80	85	90	
Arg Asp Phe Arg Ala Ala Thr Arg Ser Pro Gly Asp Ser Leu Leu			
95	100	105	
Cys Pro Gln Glu Pro Ile Lys Ser Arg Ala Pro Gln Leu His Leu			
110	115	120	
Glu Tyr Arg Phe Tyr Lys Gln Leu Ser Ala Thr Glu Gly Val Pro			
125	130	135	
Gln Val Tyr Tyr Phe Gly Pro Cys Gly Lys Tyr Asn Ala Met Val			
140	145	150	
Leu Glu Leu Leu Gly Pro Ile Leu Glu Asp Leu Phe Asp Leu Cys			
155	160	165	
Asp Arg Thr Phe Thr Leu Thr Thr Val Leu Met Ile Ala Ile Gln			
170	175	180	
Leu Ile Thr Arg Met Glu Tyr Val His Thr Lys Ser Leu Ile Tyr			
185	190	195	
Arg Asp Val Lys Pro Glu Asn Phe Leu Val Gly Arg Pro Gly Thr			
200	205	210	
Lys Arg Gln His Ala Ile His Ile Ile Asp Phe Gly Leu Ala Lys			
215	220	225	
Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu			
230	235	240	
His Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr			
245	250	255	
His Leu Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu			
260	265	270	
Gly His Met Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln			
275	280	285	
Gly Leu Lys Val Gly Glu Glu Ala Gly Gln Ala Gly Gly Asp Ala			
290	295	300	
Gly Arg Glu Gln Gly			
305			

<210> 31

<211> 930

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526193CD1

<400> 31

Met	Lys	Lys	Phe	Phe	Asp	Ser	Arg	Arg	Glu	Gln	Gly	Gly	Ser	Gly	
1			5				10								15
Leu	Gly	Ser	Gly	Ser	Ser	Gly	Gly	Gly	Ser	Thr	Ser	Gly	Leu		
			20				25							30	
Gly	Ser	Gly	Tyr	Ile	Gly	Arg	Val	Phe	Gly	Ile	Gly	Arg	Gln	Gln	
			35				40							45	
Val	Thr	Val	Asp	Glu	Val	Leu	Ala	Glu	Gly	Gly	Phe	Ala	Ile	Val	
			50				55							60	
Phe	Leu	Val	Arg	Thr	Ser	Asn	Gly	Met	Lys	Cys	Ala	Leu	Lys	Arg	
			65				70							75	
Met	Phe	Val	Asn	Asn	Glu	His	Asp	Leu	Gln	Val	Cys	Lys	Arg	Glu	
			80				85							90	
Ile	Gln	Ile	Met	Arg	Asp	Leu	Ser	Gly	His	Lys	Asn	Ile	Val	Gly	
			95				100							105	
Tyr	Ile	Asp	Ser	Ser	Ile	Asn	Asn	Val	Ser	Ser	Gly	Asp	Val	Trp	
			110				115							120	
Glu	Val	Leu	Ile	Leu	Met	Asp	Phe	Cys	Arg	Gly	Gly	Gln	Val	Val	
			125				130							135	
Asn	Leu	Met	Asn	Gln	Arg	Leu	Gln	Thr	Gly	Phe	Thr	Glu	Asn	Glu	
			140				145							150	
Val	Leu	Gln	Ile	Phe	Cys	Asp	Thr	Cys	Glu	Ala	Val	Ala	Arg	Leu	
			155				160							165	
His	Gln	Cys	Lys	Thr	Pro	Ile	Ile	His	Arg	Asp	Leu	Lys	Val	Glu	
			170				175							180	
Asn	Ile	Leu	Leu	His	Asp	Arg	Gly	His	Tyr	Val	Leu	Cys	Asp	Phe	
			185				190							195	
Gly	Ser	Ala	Thr	Asn	Lys	Phe	Gln	Asn	Pro	Gln	Thr	Glu	Gly	Val	
			200				205							210	
Asn	Ala	Val	Glu	Asp	Glu	Ile	Lys	Lys	Tyr	Thr	Thr	Leu	Ser	Tyr	
			215				220							225	
Arg	Ala	Pro	Glu	Met	Val	Asn	Leu	Tyr	Ser	Gly	Lys	Ile	Ile	Thr	
			230				235							240	
Thr	Lys	Ala	Asp	Ile	Trp	Ala	Leu	Gly	Cys	Leu	Leu	Tyr	Lys	Leu	
			245				250							255	
Cys	Tyr	Phe	Thr	Leu	Pro	Phe	Gly	Glu	Ser	Gln	Val	Ala	Ile	Cys	
			260				265							270	
Asp	Gly	Asn	Phe	Thr	Ile	Pro	Asp	Asn	Ser	Arg	Tyr	Ser	Gln	Asp	
			275				280							285	
Met	His	Cys	Leu	Ile	Arg	Tyr	Met	Leu	Glu	Pro	Asp	Pro	Asp	Lys	
			290				295							300	
Arg	Pro	Asp	Ile	Tyr	Gln	Val	Ser	Tyr	Phe	Ser	Phe	Lys	Leu		
			305				310							315	
Lys	Lys	Glu	Cys	Pro	Ile	Pro	Asn	Val	Gln	Asn	Ser	Pro	Ile	Pro	
			320				325							330	
Ala	Lys	Leu	Pro	Glu	Pro	Val	Lys	Ala	Ser	Glu	Ala	Ala	Ala	Lys	
			335				340							345	
Lys	Thr	Gln	Pro	Lys	Ala	Arg	Leu	Thr	Asp	Pro	Ile	Pro	Thr	Thr	
			350				355							360	
Glu	Thr	Ser	Ile	Ala	Pro	Arg	Gln	Arg	Pro	Lys	Ala	Gly	Gln	Thr	
			365				370							375	
Gln	Pro	Asn	Pro	Gly	Ile	Leu	Pro	Ile	Gln	Pro	Ala	Leu	Thr	Pro	
			380				385							390	
Arg	Lys	Arg	Ala	Thr	Val	Gln	Pro	Pro	Pro	Gln	Ala	Ala	Gly	Ser	
			395				400							405	
Ser	Asn	Gln	Pro	Gly	Leu	Leu	Ala	Ser	Val	Pro	Gln	Pro	Lys	Pro	
			410				415							420	
Gln	Ala	Pro	Pro	Ser	Gln	Pro	Leu	Pro	Gln	Thr	Gln	Ala	Lys	Gln	
			425				430							435	
Pro	Gln	Ala	Pro	Pro	Thr	Pro	Gln	Gln	Thr	Pro	Ser	Thr	Gln	Ala	

440	445	450
Gln Gly Leu Pro Ala Gln Ala Gln Ala	Thr Pro Gln His Gln Gln	
455	460	465
Gln Leu Phe Leu Lys Gln Gln Gln Gln	Gln Gln Gln Pro Pro Pro	
470	475	480
Ala Gln Gln Gln Pro Ala Gly Thr Phe Tyr	Gln Gln Gln Gln Ala	
485	490	495
Gln Thr Gln Gln Phe Gln Ala Val His	Pro Ala Thr Gln Gln Pro	
500	505	510
Ala Ile Ala Gln Phe Pro Val Val Ser	Gln Gly Gly Ser Gln Gln	
515	520	525
Gln Leu Met Gln Asn Phe Tyr Gln Gln Gln	Gln Gln Gln Gln Gln	
530	535	540
Gln Gln Gln Gln Gln Leu Ala Thr Ala	Leu His Gln Gln Gln	
545	550	555
Leu Met Thr Gln Gln Ala Ala Leu Gln Gln	Lys Pro Thr Met Ala	
560	565	570
Ala Gly Gln Gln Pro Gln Pro Gln Pro	Ala Ala Ala Pro Gln Pro	
575	580	585
Ala Pro Ala Gln Glu Pro Ala Gln Ile	Gln Ala Pro Val Arg Gln	
590	595	600
Gln Pro Lys Val Gln Thr Thr Pro Pro	Pro Ala Val Gln Gly Gln	
605	610	615
Lys Val Gly Ser Leu Thr Pro Pro Ser	Ser Pro Lys Thr Gln Arg	
620	625	630
Ala Gly His Arg Arg Ile Leu Ser Asp	Val Thr His Ser Ala Val	
635	640	645
Phe Gly Val Pro Ala Ser Lys Ser Thr	Gln Leu Leu Gln Ala Ala	
650	655	660
Ala Ala Glu Ala Ser Leu Asn Lys Ser	Lys Ser Ala Thr Thr Thr	
665	670	675
Pro Ser Gly Ser Pro Arg Thr Ser Gln	Gln Asn Val Tyr Asn Pro	
680	685	690
Ser Glu Gly Ser Thr Trp Asn Pro Phe	Asp Asp Asn Phe Ser	
695	700	705
Lys Leu Thr Ala Glu Glu Leu Leu Asn	Lys Asp Phe Ala Lys Leu	
710	715	720
Gly Glu Gly Lys His Pro Glu Lys Leu	Gly Gly Ser Ala Glu Ser	
725	730	735
Leu Ile Pro Gly Phe Gln Ser Thr Gln	Gly Asp Ala Phe Ala Thr	
740	745	750
Thr Ser Phe Ser Ala Gly Thr Glu Lys	Leu Ile Glu Gly Leu Lys	
755	760	765
Ser Pro Asp Thr Ser Leu Leu Leu Pro	Asp Leu Leu Pro Met Thr	
770	775	780
Asp Pro Phe Gly Ser Thr Ser Asp Ala	Val Ile Glu Lys Ala Asp	
785	790	795
Val Ala Val Glu Ser Leu Ile Pro Gly	Leu Glu Pro Pro Val Pro	
800	805	810
Gln Arg Leu Pro Ser Gln Thr Glu Ser	Val Thr Ser Asn Arg Thr	
815	820	825
Asp Ser Leu Thr Gly Glu Asp Ser Leu	Leu Asp Cys Ser Leu Leu	
830	835	840
Ser Asn Pro Thr Thr Asp Leu Leu Glu	Glu Phe Ala Pro Thr Ala	
845	850	855
Ile Ser Ala Pro Val His Lys Ala Ala	Glu Asp Ser Asn Leu Ile	
860	865	870
Ser Gly Phe Asp Val Pro Glu Gly Ser	Asp Lys Val Ala Glu Asp	
875	880	885
Glu Phe Asp Pro Ile Pro Val Leu Ile	Thr Lys Asn Pro Gln Gly	
890	895	900
Gly His Ser Arg Asn Ser Ser Gly Ser	Ser Glu Ser Ser Leu Pro	
905	910	915
Asn Leu Ala Arg Ser Leu Leu Leu Val	Asp Gln Leu Ile Asp Leu	

920

925

930

<210> 32
<211> 118
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526196CD1

<400> 32
Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
1 5 10 15
Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
20 25 30
Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
35 40 45
Leu Ala Glu Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
50 55 60
Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
65 70 75
Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Leu
80 85 90
Cys Ser Leu Gly Glu Pro Ala Gly Cys Leu Ser Val Gly Ser Gly
95 100 105
Gly His Ser His Ala Ser Ala Ser Leu Arg Thr Ala Pro
110 115

<210> 33
<211> 1355
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526198CD1

<400> 33
Met Ser Leu Leu Gln Ser Ala Leu Asp Phe Leu Ala Gly Pro Gly
1 5 10 15
Ser Leu Gly Gly Ala Ser Gly Arg Asp Gln Ser Asp Phe Val Gly
20 25 30
Gln Thr Val Glu Leu Gly Glu Leu Arg Leu Arg Val Arg Arg Val
35 40 45
Leu Ala Glu Gly Phe Ala Phe Val Tyr Glu Ala Gln Asp Val
50 55 60
Gly Ser Gly Arg Glu Tyr Ala Leu Lys Arg Leu Leu Ser Asn Glu
65 70 75
Glu Glu Lys Asn Arg Ala Ile Ile Gln Glu Val Cys Phe Met Lys
80 85 90
Lys Leu Ser Gly His Pro Asn Ile Val Gln Phe Cys Ser Ala Ala
95 100 105
Ser Ile Gly Lys Glu Glu Ser Asp Thr Gly Gln Ala Glu Phe Leu
110 115 120
Leu Leu Thr Glu Leu Cys Lys Gly Gln Leu Val Glu Phe Leu Lys
125 130 135
Lys Met Glu Ser Arg Gly Pro Leu Ser Cys Asp Thr Val Leu Lys
140 145 150
Ile Phe Tyr Gln Thr Cys Arg Ala Val Gln His Met His Arg Gln
155 160 165
Lys Pro Pro Ile Ile His Arg Asp Leu Lys Val Glu Asn Leu Leu
170 175 180

Leu Ser Asn Gln Gly Thr Ile Lys Leu Cys Asp Phe Gly Ser Ala
 185 190 195
 Thr Thr Ile Ser His Tyr Pro Asp Tyr Ser Trp Ser Ala Gln Arg
 200 205 210
 Arg Ala Leu Val Glu Glu Glu Ile Thr Arg Asn Thr Thr Pro Met
 215 220 225
 Tyr Arg Thr Pro Glu Ile Ile Asp Leu Tyr Ser Asn Phe Pro Ile
 230 235 240
 Gly Glu Lys Gln Asp Ile Trp Ala Leu Gly Cys Ile Leu Tyr Leu
 245 250 255
 Leu Cys Phe Arg Gln His Pro Phe Glu Asp Gly Ala Lys Leu Arg
 260 265 270
 Ile Val Asn Gly Lys Tyr Ser Ile Pro Pro His Asp Thr Gln Tyr
 275 280 285
 Thr Val Phe His Ser Leu Ile Arg Ala Met Leu Gln Val Asn Pro
 290 295 300
 Glu Glu Arg Leu Ser Ile Ala Glu Val Val His Gln Leu Gln Glu
 305 310 315
 Ile Ala Ala Ala Arg Asn Val Asn Pro Lys Ser Pro Ile Thr Glu
 320 325 330
 Leu Leu Glu Gln Asn Gly Gly Tyr Gly Ser Ala Thr Leu Ser Arg
 335 340 345
 Gly Pro Pro Pro Pro Val Gly Pro Ala Gly Ser Gly Tyr Ser Gly
 350 355 360
 Gly Leu Ala Leu Ala Glu Tyr Asp Gln Pro Tyr Gly Gly Phe Leu
 365 370 375
 Asp Ile Leu Arg Gly Gly Thr Glu Arg Leu Phe Thr Asn Leu Lys
 380 385 390
 Asp Thr Ser Ser Lys Val Ile Gln Ser Val Ala Asn Tyr Ala Lys
 395 400 405
 Gly Asp Leu Asp Ile Ser Tyr Ile Thr Ser Arg Ile Ala Val Met
 410 415 420
 Ser Phe Pro Ala Glu Gly Val Glu Ser Ala Leu Lys Asn Asn Ile
 425 430 435
 Glu Asp Val Arg Leu Phe Leu Asp Ser Lys His Pro Gly His Tyr
 440 445 450
 Ala Val Tyr Asn Leu Ser Pro Arg Thr Tyr Arg Pro Ser Arg Phe
 455 460 465
 His Asn Arg Val Ser Glu Cys Gly Trp Ala Ala Arg Arg Ala Pro
 470 475 480
 His Leu His Thr Leu Tyr Asn Ile Cys Arg Asn Met His Ala Trp
 485 490 495
 Leu Arg Gln Asp His Lys Asn Val Cys Val Val His Cys Met Asp
 500 505 510
 Gly Arg Ala Ala Ser Ala Val Ala Val Cys Ser Phe Leu Cys Phe
 515 520 525
 Cys Arg Leu Phe Ser Thr Ala Glu Ala Ala Val Tyr Met Phe Ser
 530 535 540
 Met Lys Arg Cys Pro Pro Gly Ile Trp Pro Ser His Lys Arg Tyr
 545 550 555
 Ile Glu Tyr Met Cys Asp Met Val Ala Glu Glu Pro Ile Thr Pro
 560 565 570
 His Ser Lys Pro Ile Leu Val Arg Ala Val Val Met Thr Pro Val
 575 580 585
 Pro Leu Phe Ser Lys Gln Arg Ser Gly Cys Arg Pro Phe Cys Glu
 590 595 600
 Val Tyr Val Gly Asp Glu Arg Val Ala Ser Thr Ser Gln Glu Tyr
 605 610 615
 Asp Lys Met Arg Asp Phe Lys Ile Glu Asp Gly Ile Ala Val Ile
 620 625 630
 Pro Leu Gly Val Thr Val Gln Gly Asp Val Leu Ile Val Ile Tyr
 635 640 645
 His Ala Arg Ser Thr Leu Gly Gly Arg Leu Gln Ala Lys Met Ala
 650 655 660

Ser Met Lys Met Phe Gln Ile Gln Phe His Thr Gly Phe Val Pro
 665 670 675
 Arg Asn Ala Thr Thr Val Lys Phe Ala Lys Tyr Asp Leu Asp Ala
 680 685 690
 Cys Asp Ile Gln Glu Lys Tyr Pro Asp Leu Phe Gln Val Asn Leu
 695 700 705
 Glu Val Glu Val Glu Pro Arg Asp Arg Pro Ser Arg Glu Ala Pro
 710 715 720
 Pro Trp Glu Asn Ser Ser Met Arg Gly Leu Asn Pro Lys Ile Leu
 725 730 735
 Phe Ser Ser Arg Glu Glu Gln Gln Asp Ile Leu Ser Lys Phe Gly
 740 745 750
 Lys Pro Glu Leu Pro Arg Gln Pro Gly Ser Thr Ala Gln Tyr Asp
 755 760 765
 Ala Gly Ala Gly Ser Pro Glu Ala Glu Pro Thr Asp Ser Asp Ser
 770 775 780
 Pro Pro Ser Ser Ser Ala Asp Ala Ser Arg Phe Leu His Thr Leu
 785 790 795
 Asp Trp Gln Glu Glu Lys Glu Ala Glu Thr Gly Ala Glu Asn Ala
 800 805 810
 Ser Ser Lys Glu Ser Glu Ser Ala Leu Met Glu Asp Arg Asp Glu
 815 820 825
 Ser Glu Val Ser Asp Glu Gly Gly Ser Pro Ile Ser Ser Glu Gly
 830 835 840
 Gln Glu Pro Arg Ala Asp Pro Glu Pro Pro Gly Leu Ala Ala Gly
 845 850 855
 Leu Val Gln Gln Asp Leu Val Phe Glu Val Glu Thr Pro Ala Val
 860 865 870
 Leu Pro Glu Pro Val Pro Gln Glu Asp Gly Val Asp Leu Leu Gly
 875 880 885
 Leu His Ser Glu Val Gly Ala Gly Pro Ala Val Pro Pro Gln Ala
 890 895 900
 Cys Lys Ala Pro Ser Ser Asn Thr Asp Leu Leu Ser Cys Leu Leu
 905 910 915
 Gly Pro Pro Glu Ala Ala Ser Gln Gly Pro Pro Glu Asp Leu Leu
 920 925 930
 Ser Glu Asp Pro Leu Leu Leu Ala Ser Pro Ala Pro Pro Leu Ser
 935 940 945
 Val Gln Ser Thr Pro Arg Gly Gly Pro Pro Ala Ala Ala Asp Pro
 950 955 960
 Phe Gly Pro Leu Leu Pro Ser Ser Gly Asn Asn Ser Gln Pro Cys
 965 970 975
 Ser Asn Pro Asp Leu Phe Gly Glu Phe Leu Asn Ser Asp Ser Val
 980 985 990
 Thr Val Pro Pro Ser Phe Pro Ser Ala His Ser Ala Pro Pro Pro
 995 1000 1005
 Ser Cys Ser Ala Asp Phe Leu His Leu Gly Asp Leu Pro Gly Glu
 1010 1015 1020
 Pro Ser Lys Met Thr Ala Ser Ser Ser Asn Pro Asp Leu Leu Gly
 1025 1030 1035
 Gly Trp Ala Ala Trp Thr Glu Thr Ala Ala Ser Ala Val Ala Pro
 1040 1045 1050
 Thr Pro Ala Thr Glu Gly Pro Leu Phe Ser Pro Gly Gly Gln Pro
 1055 1060 1065
 Ala Pro Cys Gly Ser Gln Ala Ser Trp Thr Lys Ser Gln Asn Pro
 1070 1075 1080
 Asp Pro Phe Ala Asp Leu Gly Asp Leu Ser Ser Gly Leu Gln Asp
 1085 1090 1095
 Pro Gln Ala Gln Ser Thr Val Ser Pro Arg Gly Gln Arg Val Cys
 1100 1105 1110
 Thr Cys Ser Arg Arg Leu Pro Thr Gly Lys Leu Lys Pro Gly Val
 1115 1120 1125
 Ala Asp Thr Gly Thr Ala Ala Ser Pro His Arg His Cys Gly Ser
 1130 1135 1140

Pro Ala Gly Phe Pro Pro Gly Gly Phe Ile Pro Lys Thr Ala Thr
 1145 1150 1155
 Thr Pro Lys Gly Ser Ser Ser Trp Gln Thr Ser Arg Pro Pro Ala
 1160 1165 1170
 Gln Gly Ala Ser Trp Pro Pro Gln Ala Lys Pro Pro Pro Lys Ala
 1175 1180 1185
 Cys Thr Gln Pro Arg Pro Asn Tyr Ala Ser Asn Phe Ser Val Ile
 1190 1195 1200
 Gly Ala Arg Glu Glu Arg Gly Val Arg Ala Pro Ser Phe Ala Gln
 1205 1210 1215
 Lys Pro Lys Val Ser Glu Asn Asp Phe Glu Asp Leu Leu Ser Asn
 1220 1225 1230
 Gln Gly Phe Ser Ser Arg Ser Asp Lys Lys Gly Pro Lys Thr Ile
 1235 1240 1245
 Ala Glu Met Arg Lys Gln Asp Leu Ala Lys Asp Thr Asp Pro Leu
 1250 1255 1260
 Lys Leu Lys Leu Leu Asp Trp Ile Glu Gly Lys Glu Arg Asn Ile
 1265 1270 1275
 Arg Ala Leu Leu Ser Thr Leu His Thr Val Leu Trp Asp Gly Glu
 1280 1285 1290
 Ser Arg Trp Thr Pro Val Gly Met Ala Asp Leu Val Ala Pro Glu
 1295 1300 1305
 Gln Val Lys Lys His Tyr Arg Arg Ala Val Leu Ala Val His Pro
 1310 1315 1320
 Asp Lys Ala Ala Gly Gln Pro Tyr Glu Gln His Ala Lys Met Ile
 1325 1330 1335
 Phe Met Glu Leu Asn Asp Ala Trp Ser Glu Phe Glu Asn Gln Gly
 1340 1345 1350
 Ser Arg Pro Leu Phe
 1355

<210> 34

<211> 490

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526208CD1

<400> 34

Met Ala Ser Thr Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1 5 10 15
 Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe Ser Val Val Arg Arg
 20 25 30
 Cys Met Lys Ile Pro Thr Gly Gln Glu Tyr Ala Ala Lys Ile Ile
 35 40 45
 Asn Thr Lys Lys Leu Ser Ala Arg Val Arg Leu His Asp Ser Ile
 50 55 60
 Ser Glu Glu Gly Phe His Tyr Leu Val Phe Asp Leu Val Thr Gly
 65 70 75
 Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
 80 85 90
 Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
 95 100 105
 His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
 110 115 120
 Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
 125 130 135
 Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
 140 145 150
 Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
 155 160 165
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys

170	175	180
Gly Val Ile Leu Tyr Ile Leu Leu Val	Gly Tyr Pro Pro Phe	Trp
185	190	195
Asp Glu Asp Gln His Arg Leu Tyr Gln	Gln Ile Lys Ala Gly	Ala
200	205	210
Tyr Asp Phe Pro Ser Pro Glu Trp Asp	Thr Val Thr Pro Glu	Ala
215	220	225
Lys Asp Leu Ile Asn Lys Met Leu Thr	Ile Asn Pro Ala Lys	Arg
230	235	240
Ile Thr Ala Ser Glu Ala Leu Lys His	Pro Trp Ile Cys Gln	Arg
245	250	255
Ser Thr Val Ala Ser Met Met His Arg	Gln Glu Thr Val Asp	Cys
260	265	270
Leu Lys Lys Phe Asn Ala Arg Arg Lys	Leu Lys Gly Ala Ile	Leu
275	280	285
Thr Thr Met Leu Ala Thr Arg Asn Phe	Ser Ala Ala Lys Ser	Leu
290	295	300
Leu Lys Lys Pro Asp Gly Val Lys Lys	Arg Lys Ser Ser Ser	Ser
305	310	315
Val Gln Met Met Glu Ser Thr Glu Ser	Ser Asn Thr Thr Ile	Glu
320	325	330
Asp Glu Asp Val Glu Ala Arg Lys Gln	Glu Ile Ile Lys Val	Thr
335	340	345
Glu Gln Leu Ile Glu Ala Ile Asn Asn	Gly Asp Phe Glu Ala	Tyr
350	355	360
Thr Lys Ile Cys Asp Pro Gly Leu Thr	Ala Phe Glu Pro Glu	Ala
365	370	375
Leu Gly Asn Leu Val Glu Gly Met Asp	Phe His Arg Phe Tyr	Phe
380	385	390
Glu Asn Ala Leu Ser Lys Ser Asn Lys	Pro Ile His Thr Ile	Ile
395	400	405
Leu Asn Pro His Val His Leu Val Gly	Asp Asp Ala Ala Cys	Ile
410	415	420
Ala Tyr Ile Arg Leu Thr Gln Tyr Met	Asp Gly Ser Gly Met	Pro
425	430	435
Lys Thr Met Gln Ser Glu Glu Thr Arg	Val Trp His Arg Arg	Asp
440	445	450
Gly Lys Trp Gln Asn Val His Phe His	Arg Ser Gly Ser Pro	Thr
455	460	465
Val Pro Ile Lys Pro Pro Cys Ile Pro	Asn Gly Lys Glu Asn	Phe
470	475	480
Ser Gly Gly Thr Ser Leu Trp Gln Asn	Ile	
485	490	

<210> 35

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526212CD1

<400> 35

Met Ala Ser Thr Thr Cys Thr Arg	Phe Thr Asp Glu Tyr Gln		
1	5	10	15
Leu Phe Glu Glu Leu Gly Lys Gly Ala	Phe Ser Val Val Arg Arg		
20	25	30	
Cys Met Lys Ile Pro Thr Gly Gln Glu	Tyr Ala Ala Lys Ile Ile		
35	40	45	
Asn Thr Lys Lys Leu Ser Ala Arg Val	Arg Leu His Asp Ser Ile		
50	55	60	
Ser Glu Glu Gly Phe His Tyr Leu Val	Val Asp Leu Val Thr Gly		
65	70	75	

Gly Glu Leu Phe Glu Asp Ile Val Ala Arg Glu Tyr Tyr Ser Glu
 80 85 90
 Ala Asp Ala Ser His Cys Ile Gln Gln Ile Leu Glu Ala Val Leu
 95 100 105
 His Cys His Gln Met Gly Val Val His Arg Asp Leu Lys Pro Glu
 110 115 120
 Asn Leu Leu Leu Ala Ser Lys Ser Lys Gly Ala Ala Val Lys Leu
 125 130 135
 Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Asp Gln Gln Ala
 140 145 150
 Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
 155 160 165
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Met Trp Ala Cys
 170 175 180
 Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp
 185 190 195
 Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile Lys Ala Gly Ala
 200 205 210
 Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala
 215 220 225
 Lys Asp Leu Ile Asn Lys Met Leu Thr Ile Asn Pro Ala Lys Arg
 230 235 240
 Ile Thr Ala Ser Glu Ala Leu Lys His Pro Trp Ile Cys Gln Arg
 245 250 255
 Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Asp Cys
 260 265 270
 Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu
 275 280 285
 Thr Thr Met Leu Ala Thr Arg Asn Phe Ser Ala Ala Lys Ser Leu
 290 295 300
 Leu Lys Lys Pro Asp Gly Val Lys Glu Ser Thr Glu Ser Ser Asn
 305 310 315
 Thr Thr Ile Glu Asp Glu Asp Val Lys Gly Thr Val Ala His Ala
 320 325 330
 Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Gln Ile Thr
 335 340 340

<210> 36
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526213CD1

<400> 36

Met Lys Lys Phe Ser Arg Met Pro Lys Ser Glu Gly Gly Ser Gly		
1 5 10 15		
Gly Gly Ala Ala Gly Gly Gly Ala Gly Gly Ala Gly Ala Gly Ala		
20 25 30 30		
Gly Cys Gly Ser Gly Gly Ser Ser Val Gly Val Arg Val Phe Ala		
35 40 45 45		
Val Gly Arg His Gln Val Thr Leu Glu Glu Ser Leu Ala Glu Val		
50 55 60 60		
Ile Gln Met Leu Pro Val Gln Glu Pro Arg Leu Glu Tyr Arg Val		
65 70 75 75		
Pro Leu Ile Ser Ser Gly Arg Arg Arg Leu Arg Arg Arg Cys		
80 85 85 85		

<210> 37
 <211> 88
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526214CD1

<400> 37

Met	Lys	Lys	Phe	Ser	Arg	Met	Pro	Lys	Ser	Glu	Gly	Gly	Ser	Gly
1										10				15
Gly	Gly	Ala	Ala	Gly	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Ala	Gly	Ala
										20			25	30
Gly	Cys	Gly	Ser	Gly	Gly	Ser	Ser	Val	Gly	Val	Arg	Val	Phe	Ala
										35			40	45
Val	Gly	Arg	His	Gln	Val	Thr	Leu	Glu	Glu	Ser	Leu	Ala	Glu	Gly
										50			55	60
Thr	Gly	Ala	Arg	Gly	Gly	Ser	Asp	Arg	Gln	Val	Asp	Ser	Pro	Gln
										65			70	75
Phe	Ser	Ser	Cys	Val	Leu	Thr	Val	Glu	Ser	Asp	Val	His		
										80			85	

<210> 38

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526228CD1

<400> 38

Met	Ser	Thr	Ala	Ser	Ala	Ala	Ser	Ala						
1										10				15
Gly	Glu	Met	Ile	Glu	Ala	Pro	Ser	Gln	Val	Leu	Asn	Phe	Glu	Glu
										20			25	30
Ile	Asp	Tyr	Lys	Glu	Ile	Glu	Val	Glu	Glu	Val	Val	Gly	Arg	Gly
										35			40	45
Ala	Phe	Gly	Val	Val	Cys	Lys	Ala	Lys	Trp	Arg	Ala	Lys	Asp	Val
										50			55	60
Ala	Ile	Lys	Gln	Ile	Glu	Ser	Glu	Ser	Glu	Arg	Lys	Ala	Phe	Ile
										65			70	75
Val	Glu	Leu	Arg	Gln	Leu	Ser	Arg	Val	Asn	His	Pro	Asn	Ile	Val
										80			85	90
Lys	Leu	Tyr	Gly	Ala	Cys	Leu	Asn	Pro	Val	Cys	Leu	Val	Met	Glu
										95			100	105
Tyr	Ala	Glu	Gly	Gly	Ser	Leu	Tyr	Asn	Val	Cys	Ala	Phe	Leu	Ser
										110			115	120
Gln	Cys	Cys	Met	Val	Leu	Asn	His	Cys	His	Ile	Ile	Leu	Leu	Pro
										125			130	135
Thr	Gln													

<210> 39

<211> 243

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526246CD1

<400> 39

Met	Ala	Asp	Leu	Glu	Ala	Val	Leu	Ala	Asp	Val	Ser	Tyr	Leu	Met
1										5			10	15
Ala	Met	Glu	Lys	Ser	Lys	Ala	Thr	Pro	Ala	Ala	Arg	Ala	Ser	Lys
										20			25	30
Lys	Ile	Leu	Leu	Pro	Glu	Pro	Ser	Ile	Arg	Ser	Val	Met	Gln	Lys

35	40	45
Tyr Leu Glu Asp Arg Gly Glu Val Thr Phe Glu Lys Ile Phe Ser		
50	55	60
Gln Lys Leu Gly Tyr Leu Leu Phe Arg Asp Phe Cys Leu Asn His		
65	70	75
Leu Glu Glu Ala Arg Pro Leu Val Glu Phe Tyr Glu Glu Ile Lys		
80	85	90
Lys Tyr Glu Lys Leu Glu Thr Glu Glu Arg Val Ala Arg Ser		
95	100	105
Arg Glu Ile Phe Asp Ser Tyr Ile Met Lys Glu Leu Leu Ala Cys		
110	115	120
Ser His Pro Phe Ser Lys Ser Ala Thr Glu His Val Gln Gly His		
125	130	135
Leu Gly Lys Lys Gln Val Pro Pro Asp Leu Phe Gln Pro Tyr Ile		
140	145	150
Glu Glu Ile Cys Gln Asn Leu Arg Gly Asp Val Phe Gln Lys Phe		
155	160	165
Ile Glu Ser Asp Lys Phe Thr Arg Phe Cys Gln Trp Lys Asn Val		
170	175	180
Glu Leu Asn Ile His Val Ser Gly Leu Gly Trp Gly Met Glu Ser		
185	190	195
His Ala Pro Cys Cys Ser Ser Pro Gly Ser Trp Ala Cys Gly Leu		
200	205	210
Ala Gly Arg Gly Arg Ser Gly Asp Val Cys Pro Leu Ala Pro Arg		
215	220	225
Ala Val Ala Met Gly Val Arg Ala Gly Ile Pro Ala Trp Gly Gly		
230	235	240
Arg Ser Arg		

<210> 40
<211> 463
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526258CD1

<400> 40		
Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro		
1 5 10 15		
Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro		
20 25 30		
Ser Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser		
35 40 45		
Pro Ala Arg Leu Ser Gly Leu Leu Ile Pro Pro Val Gln Pro		
50 55 60		
Cys Cys Leu Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly		
65 70 75		
Gly Pro Ser Ala Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu		
80 85 90		
Gln Ala Lys Ser Pro Gly Glu Leu Leu Arg Trp Leu Gly Gln Asn		
95 100 105		
Pro Ser Lys Val Arg Ala His His Tyr Ser Val Ala Leu Arg Arg		
110 115 120		
Leu Gly Gln Leu Leu Gly Ser Arg Pro Arg Pro Pro Pro Val Glu		
125 130 135		
Gln Val Thr Leu Gln Asp Leu Ser Gln Leu Ile Ile Arg Asn Cys		
140 145 150		
Pro Ser Phe Asp Ile His Thr Ile His Val Cys Leu His Leu Ala		
155 160 165		
Val Leu Leu Gly Phe Pro Ser Asp Gly Pro Leu Val Cys Ala Leu		
170 175 180		

Glu	Gln	Glu	Arg	Arg	Leu	Arg	Leu	Pro	Pro	Lys	Pro	Pro	Pro	Pro
					185			190			195			
Leu	Gln	Pro	Leu	Leu	Arg	Glu	Ala	Arg	Pro	Glu	Glu	Leu	Thr	Pro
					200			205			210			
His	Val	Met	Val	Leu	Leu	Ala	Gln	His	Leu	Ala	Arg	His	Arg	Leu
					215			220			225			
Arg	Glu	Pro	Gln	Leu	Leu	Glu	Ala	Ile	Thr	His	Phe	Leu	Val	Val
					230			235			240			
Gln	Glu	Thr	Gln	Leu	Ser	Ser	Lys	Val	Val	Gln	Lys	Leu	Val	Leu
					245			250			255			
Pro	Phe	Gly	Arg	Leu	Asn	Tyr	Leu	Pro	Leu	Glu	Gln	Gln	Phe	Met
					260			265			270			
Pro	Cys	Leu	Glu	Arg	Ile	Leu	Ala	Arg	Glu	Ala	Gly	Val	Ala	Pro
					275			280			285			
Leu	Ala	Thr	Val	Asn	Ile	Leu	Met	Ser	Leu	Cys	Gln	Leu	Arg	Cys
					290			295			300			
Leu	Pro	Phe	Arg	Ala	Leu	His	Phe	Val	Phe	Ser	Pro	Gly	Phe	Ile
					305			310			315			
Asn	Tyr	Ile	Ser	Gly	Thr	Pro	His	Ala	Leu	Ile	Val	Arg	Arg	Tyr
					320			325			330			
Leu	Ser	Leu	Leu	Asp	Thr	Ala	Val	Glu	Leu	Glu	Leu	Pro	Gly	Tyr
					335			340			345			
Arg	Gly	Pro	Arg	Leu	Pro	Arg	Arg	Gln	Gln	Val	Pro	Ile	Phe	Pro
					350			355			360			
Gln	Pro	Leu	Ile	Thr	Asp	Arg	Ala	Arg	Cys	Lys	Tyr	Ser	His	Lys
					365			370			375			
Asp	Ile	Val	Ala	Glu	Gly	Leu	Arg	Gln	Leu	Leu	Gly	Glu	Glu	Lys
					380			385			390			
Tyr	Arg	Gln	Asp	Leu	Thr	Val	Pro	Pro	Gly	Tyr	Cys	Thr	Gly	Glu
					395			400			405			
Gln	Gly	Ala	Gly	Gly	Arg	Pro	Gly	Glu	Thr	Glu	Pro	Trp	Leu	Arg
					410			415			420			
Pro	Pro	Ala	Leu	Leu	Pro	Ser	Arg	Leu	Pro	Ala	Val	Arg	Gln	Gln
					425			430			435			
Leu	Trp	Cys	Cys	Ala	Ser	Arg	Glu	Asp	Pro	Gly	Pro	Leu	Pro	Ala
					440			445			450			
Ile	Pro	Thr	Lys	Val	Leu	Pro	Thr	Gly	Pro	Gly	Cys	Leu		
					455			460						

<210> 41
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526311CD1

<400> 41

Met	Arg	Leu	Ala	Arg	Leu	Leu	Arg	Gly	Ala	Ala	Leu	Ala	Gly	Pro
1					5				10					15
Gly	Pro	Gly	Leu	Arg	Ala	Ala	Gly	Phe	Ser	Arg	Ser	Phe	Ser	Ser
					20				25			30		
Asp	Ser	Gly	Ser	Ser	Pro	Ala	Ser	Glu	Arg	Gly	Val	Pro	Gly	Gln
					35			40			45			
Val	Asp	Phe	Tyr	Ala	Arg	Phe	Ser	Pro	Ser	Pro	Leu	Ser	Met	Lys
					50			55			60			
Gln	Phe	Leu	Asp	Phe	Gly	Ser	Val	Asn	Ala	Cys	Glu	Lys	Thr	Ser
					65			70			75			
Phe	Met	Phe	Leu	Arg	Gln	Glu	Leu	Pro	Val	Arg	Leu	Ala	Asn	Ile
					80			85			90			
Met	Lys	Glu	Ile	Ser	Leu	Leu	Pro	Asp	Asn	Leu	Leu	Arg	Thr	Pro
					95			100			105			
Ser	Val	Gln	Leu	Val	Gln	Ser	Trp	Tyr	Ile	Gln	Ser	Leu	Gln	Glu

110	115	120
Leu Leu Asp Phe Lys Asp Lys Ser Ala	Glu Asp Ala Lys Ala	Ile
125	130	135
Tyr Glu Arg Pro Arg Arg Thr Trp Leu	Gln Val Ser Ser Leu	Cys
140	145	150
Cys Met Ala Cys Lys Met Ile Phe Ile	Val Trp Trp Lys Arg	Gln
155	160	165
Arg Lys Ser Ile Ser Ser Lys Thr His	Trp Lys His Lys Ser	Lys
170	175	180
Leu Gln Cys Thr		

<210> 42
<211> 386
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526315CD1

<400> 42			
Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp Asp			
1	5	10	15
Leu Gln Phe Phe Glu Asn Cys Gly Gly	Gly Ser Phe Gly Ser Val		
20	25		30
Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys	Glu Val Ala Val Lys		
35	40		45
Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu	Ile Leu Ser Val Leu		
50	55		60
Ser His Arg Asn Ile Ile Gln Phe Tyr Gly	Val Ile Leu Glu Pro		
65	70		75
Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala	Ser Leu Gly Ser Leu		
80	85		90
Tyr Asp Tyr Ile Asn Ser Asn Arg Ser	Glu Glu Met Asp Met Asp		
95	100		105
His Ile Met Thr Trp Ala Thr Asp Val	Ala Lys Gly Met His Tyr		
110	115		120
Leu His Met Glu Ala Pro Val Lys Val	Ile His Arg Asp Leu Lys		
125	130		135
Ser Arg Asn Val Val Ile Ala Ala Asp	Gly Val Leu Lys Ile Cys		
140	145		150
Asp Phe Gly Ala Ser Arg Leu His Asn	His Thr Thr His Met Ser		
155	160		165
Leu Val Gly Thr Phe Pro Trp Met Ala	Pro Glu Val Ile Gln Ser		
170	175		180
Leu Pro Val Ser Glu Thr Cys Asp Thr	Tyr Ser Tyr Gly Val Val		
185	190		195
Leu Trp Glu Met Leu Thr Arg Glu Val	Pro Phe Lys Gly Leu Glu		
200	205		210
Gly Leu Gln Val Ala Trp Leu Val Val	Glu Lys Asn Glu Arg Leu		
215	220		225
Lys Lys Leu Glu Arg Asp Leu Ser Phe	Lys Glu Gln Glu Leu Lys		
230	235		240
Glu Arg Glu Arg Arg Leu Lys Met Trp	Glu Gln Lys Leu Thr Glu		
245	250		255
Gln Ser Asn Thr Pro Leu Leu Leu Pro	Leu Val Ala Arg Met Ser		
260	265		270
Glu Glu Ser Tyr Phe Glu Ser Lys Thr	Glu Glu Ser Asn Ser Ala		
275	280		285
Glu Met Ser Cys Gln Ile Thr Ala Thr	Ser Asn Gly Glu Gly His		
290	295		300
Gly Met Asn Pro Ser Leu Gln Ala Met	Met Leu Met Gly Phe Gly		
305	310		315

Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser Gly
 320 325 330
 Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
 335 340 345
 Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser
 350 355 360
 Asp Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Gly
 365 370 375
 Glu Glu Glu Asp Asn Asp Met Asp Asn Ser Glu
 380 385

<210> 43
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526442CD1

<400> 43
 Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala His
 1 5 10 15
 Gly Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val
 20 25 30
 Ala Leu Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro
 35 40 45
 Asn Gln Ala Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp
 50 55 60
 Asn Gln Tyr Val Val Gln Leu Lys Ala Val Phe Pro His Gly Gly
 65 70 75
 Gly Phe Val Leu Ala Phe Glu Phe Met Leu Ser Asp Leu Ala Glu
 80 85 90
 Val Val Arg His Ala Gln Arg Pro Leu Ala Gln Ala Gln Val Lys
 95 100 105
 Ser Tyr Leu Gln Met Leu Leu Lys Gly Val Ala Phe Cys His Ala
 110 115 120
 Asn Asn Ile Val His Arg Asp Leu Pro Pro Arg Pro Ile Gln Gly
 125 130 135
 Pro Pro Thr Ser Met Thr Ser Thr Trp Thr Gly Leu Leu Arg Ser
 140 145 150
 Arg Cys

<210> 44
 <211> 1916
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <223> Incyte ID No: 7517831CB1

<400> 44
 gttaggccag gaggaccatg tgaatggggc cagagggctc ccgggctggg caggaccatg 60
 ggctgtggct gcagctcaca cccggaagat gactggatgg aaaacatcga tgtgtgtgag 120
 aactgcccatt atcccatagt cccactggat ggcaaggcga cgctgctcat ccgaaatggc 180
 tctgagacaa cctggttatc gctctgcaca gctatgagcc ctctcacgac ggagatctgg 240
 gcttgagaa ggggaaacag ctccgcattcc tggagcagag cggcgagtgg tggaaaggcgc 300
 agtccctgac cacggggccag gaaggcttca tcccattca ttttgtggcc aaagcgaaca 360
 gcctggagcc cgaacctgg ttcttcaaga acctgagccg caaggacgcg gagcggcagc 420
 tcctggcgcc cgggaacact cacggctcc tcctcatccg ggagagcgcg agcaccgcgg 480
 gatcgtttc actgtcggtc cgggacttcg accagaacca gggagagtg gtgaaacatt 540
 acaagatccg taatctggac aacgggtggct tctacatctc ccctcgaatc actttcccg 600

gcctgcatga actggccgc cattacacca atgcttcaga tgggctgtgc acacgggtga 660
 gccggccctg ccagacccag aagccccaga agccgtggc ggaggacgag tgggaggttc 720
 ccagggagac gctgaagctg gtggagccgc tggggctgg acagttcggg gaggtgtgga 780
 tgggtacta caacgggcac acgaaggctt cggtaagag cctgaagcag ggcagcatgt 840
 cccggacgc cttcctggcc gaggccaaacc tcatgaagca gctgcaacac cagcggctgg 900
 ttcggctcta cgctgtggc acccaggagc ccatctacat catcaactgaa tacatggaga 960
 atgggagtc agtggatttt ctcaagaccc cttcaggcat caagttgacc atcaacaaac 1020
 tcctggacat ggcagccaa ttgcagaagg catggcattc attgaagagc ggaattat 1080
 tcatcgac cttcggctg ccaacattct ggtgtctgac accctgagct gcaagattgc 1140
 agacttgggt ctagcacgac tcattgagga caacgagtc acagccaggg agggggccaa 1200
 gtttccatt aagtggacag cgccagaagc cattaactac gggacattca ccatcaagtc 1260
 agatgtgtgg tctttgggaa tcctgctgac gggaaattgtc acccacggcc gcatccctta 1320
 cccaggatg accaaccggg aggtgattca gAACCTGGAG cgaggctacc gcatggtgcg 1380
 ccctgacaac tgtccagagg agctgtacca actcatgagg ctgtgctgga aggagcggcc 1440
 agaggaccgg cccacccctt actacccctgca cagttgtctg gaggacttct tCACGGCCAC 1500
 agagggcccg taccggcctc agccttgaga ggccttgaga ggccttgggg ttctccccct 1560
 ttctctcccg cctgacttgg ggagatggag ttcttgccat atagtcacat ggcctatgca 1620
 catatggact ctgcacatgaa atccccccca catgtgacac atatgcacat tttgtctgta 1680
 cacgtgtcct gtatgtcggt ggactctgca catgtctgt acatgtgttag cctgtgcatt 1740
 tatgtcttgg acactgtaca aggttaccct ttctggctt cccatttccct gagaccacag 1800
 agagagggga gaagcttggg attgacagaa gcttctgccc acctactttt ctttcttcag 1860
 atcatccaga agttcctcaa gggccaggac tttatcta at acctctgtgt gtcct 1916

<210> 45
 <211> 926
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7520272CB1

<400> 45
 tctacccgggt tcaagcatgg ctgaccaggc gcccattcgac acggacgtca acaccctgac 60
 cccgttcgtc atggaggagg gcaggaaggc cccggggcact ggcgagttga cccagctgtct 120
 caactcgctc tgcacacgat tcaaaaggccat ctcttcggcg gtgcgcaagg cgggcatcgc 180
 gcacccctat ggcattgtg gtttacccaa cgtgacaggt gatcaagttt agaagctgga 240
 cgttccctcc aacgacccctt tttatggacat gttaaaggta tcctttgcca cgtgtgttct 300
 cgtgtcagaa gaagataaaac acggccatcat agtggaaaccg gagaaaaaggg gtaaaatatgt 360
 ggtctgtttt gatccccctt atggatcttc caacatcgat tgccttggat ccgttggaaac 420
 catttttggc atctatagaa agaaatcaac tgatggaccc tctgagaagg atgctctgca 480
 accaggccgg aacctgggtt cagccggcta cgcactgtat ggcagtgcac ccatgctgg 540
 ccttgcctat gactgtgggg tcaactgctt catgtggac cccgataatt cagctccctta 600
 tggggccccc tatgtgggct ccatggtggc tgatgttcat cgcactctgg tctacggagg 660
 gatatttctg taccggccta acaagaagag ccccaatggaa aagctgagac tgctgtacga 720
 atgcaacccca atggccctacg tcatggagaa ggctggggga atggccacca ctgggaaggaa 780
 ggccgttta gacgtcattt ccacagacat tcaccagagg ggcgggtga tcttggggtc 840
 ccccgacgac gtgtcgatg tccatggat gttatggaaac cactctgccc agtggacacc 900
 tgccttcgtt gcatctggag aattga 926

<210> 46
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7521279CB1

<400> 46
 tcatggcgcc cccacggggaa ttgacacaga accccctgaa gaagatctgg atgcccataca 60
 gcaatggcg gcccgtctg cacgcttggc agcgggtgt gtgcgttacc aactgcccac 120
 ctctcattgt catggggcctt ctggccggca gggcaagac ctacatctcc aagaagctga 180
 ctgcatactt gaaactggatt ggtgtggccca ctcggagtt caatgttggc cagttatcgcc 240

gggacgtggt caagacctac aaatctttg aatttttct ccccgacaat gaagagggcc 300
 tggaaaatca gaaagcagtgt gcccggcag ccctccgtga cgtccggcgg ttccttagtg 360
 aggagggggg acatgtggcg gttttgatg ccacaaacac caccggagaa cggagagcga 420
 ccatcttaa ttttggagaa cagaatggct acaagacctt ttttgcgag tccatctgtg 480
 tggatcctga ggtcatagct gccaacatcg tgcaagtgaa actgggcage cctgactatg 540
 tcaaccgcga cagtatgag gctacggagg acttcatgag ggcatttag tgctatgaga 600
 actcctacga gtcgctagat gaggacctgg atagggacct gtcctatatac aagatcatgg 660
 atgtgggcca gagctacgtg gtgaaccctg tggctgacca catccagac cgcacatgtat 720
 attacctcat gaacatccac gtgacccccc gctccatcta cctctgccc cacggggaga 780
 gcgagctcaa cctcaaggc cgattggcg gggacccagg actgtcccct cggggcaggg 840
 agtttgc当地 gagtcttagcc cagttcatca gtgaccaaaa tatcaaggat ctgaaggct 900
 ggacaagcca gatgaagagg acaatccaga cggctgaggc actgggtgtg ccctatgaac 960
 agtggaggt cctcaacgag atcgatgcgt cctacgagga cctggccag agactggagc 1020
 ctgtcatcat ggagctggag aggcaagaga atgtgctggg catctgccac caggctgtg 1080
 tgcgctgc当地 gctggccctac ttccctcgaca aggagcaga acagctgccc tacctaagt 1140
 gtcggctgca cacagtctg aagctgactc ctgtggcata tgggtgaaa gtggagtcca 1200
 tattcctgaa cgtggctgct gtgaacacgc accgggacag gcctcagaac gtggacatct 1260
 caagacctcc agaggaagcc cttgtcacgg tgcctgctca ccagtgacca tggatcatcca 1320
 ctgtgaccac taggcaggca ctgctcttg cagagggggt cattccagac cctccagtg 1380
 ga 1382

<210> 47

<211> 1678

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7523965CB1

<400> 47

tatggccgca ttgtaccgccc ctggcctgct gcttaactgg catggctga gccccttggg 60
 ctggccatca tgccgtagca tccagacccct gcgagtgttt agtggagatc tggggccagct 120
 tcccaactggc attcgagatt ttgttagagca cagtggccgc ctgtgccaac cagagggcat 180
 ccacatctgt gatggaaactg aggctgagaa tactgccaca ctgaccctgc tggagcagca 240
 gggcctcatc cgaaagctcc ccaagtacaa taactgtgg ctggccgc cagaccccaa 300
 ggtatgtggca cgagttagaga gcaagacggt gattgttaact ccttctcagc gggacacgg 360
 accactcccg cctggggggg cccgtggca gctgggcaac tggatgtccc cagctgattt 420
 ccagcgagct gtggatgaga gttttccagg ctgcattgcg ggcgcacca tggatgtgt 480
 tccattcagc atgggtctg tgggtctccc gctgtcccgc atcggttgc agctcaactg 540
 ctcagcttat gtgggtggca gcatgcgtat tatgacccga ctggggacac ctgtgcttca 600
 gcccctggga gatgggtact ttgtcaagtg tctgcactcc gtggggccagc ccctgacagg 660
 acaagatccct gggcatcacc agccctgcag ggaagaagcgc ctatgtggca gccccttcc 720
 ctatgtgcctg tggcaagacc aacctggcta tgatgcggcc tgcactgcca ggctggaaa 780
 tggagtgtgtt gggggatgtt attgttttggta tgagggttga cagtgaaggat cgactccgg 840
 ccatcaaccc tgagaacggc ttctttgggg ttggccctgg tacctctgccc accaccaatc 900
 ccaacgccccat ggctacaatc cagagtaaca ctatttttac caatgtggct gagaccagt 960
 atgggtggcgt gtactgggag ggcattgacc agccttcc acctgggtt actgtgaccc 1020
 cctggctggg caaacctgg aaacctggtg acaaggagcc ctgtgcacat cccaaactctc 1080
 gattttgc cccggctcgc cagtggccca tcatggaccc agcctgggag gcccagagg 1140
 gtgtccccat tgacggccatc atctttggtg gcccagacc caaagggaaat atcatcatgc 1200
 acgacccatt tgccatgcgg cccttttttg gctacaactt cgggcactac ctggaaacact 1260
 ggctgagcat ggaaggggcgc aaggggggcc agctgccccg tatctccat gtcaactgg 1320
 tccggcgtga cgaggcaggc cacttccgtt ggcaggctt tggggagaat gtcgggtgc 1380
 tagactggat ctggccggcgg tttagaggggg aggacagtgc ccgagagaca cccattgggc 1440
 tggtgccaaa ggaaggagcc ttggatctca gccgcctcag agctatagac accactcagc 1500
 tggatctccct ccccaaggac ttctgggaac aggaggttcg tgacatctgg agctacactg 1560
 cagagcaggat caaccaggat ctggccaaag aggtgttgc tgagcttgag gcccctggaga 1620
 gacgtgtgca caaaatgtga cctgaggccc tagtctagca agaggacata gcacccta 1678

<210> 48

<211> 895

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524016CB1

<400> 48
 tctgtaaatg caagagaacc gagtggtggat aattagcgat ggaagaaaaa acctctagaa 60
 taaaagcatc cataccccag tttaccaatt cccccacaat ggtgatcatg gtgggtttac 120
 cagctcgagg caagacctat atctccacaa agctcacacg atatctcaac tggataggaa 180
 caccaactaa agtgtttaat tttaggccagt atcgacgaga ggcagtggc tacaagaact 240
 atgaattctt tcttccagac aacatggaag ccctgcaaat caggaagcag tgccctgg 300
 cagccctgaa ggatgttac aactatctca gccatgagga aggtcatgtt gcgggtttt 360
 atgccaccaa cactaccaga gaacgcacggt cactgatcct gcagtttgc aaaaacatg 420
 gttacaagggt gttttcatt gaggccattt gtaatgaccc tggcataatt gcagaaaaca 480
 tcaggcaagt gaaacttggc agccctgatt atatagactg tgaccggaa aaggttctgg 540
 aagacttctt aaagagaat gaggctatg aggtcaacta ccaaccctt gatgaggaac 600
 tggacagatc ttcgcgtgg gcacacgcta catggtaac cgagtgcagg atcacatcca 660
 gagccgcaca gtctactacc tcatgaat ccatgtcaca cctcgctca tctaccttt 720
 ccgacatggc gagagtgaac tcaacatcatc agggcgatc ggaggtgact ctggcctctc 780
 agttcgccg aagcagtatg cctatgcctt ggccaacttc attcagttccc agggcatcag 840
 ctccctgaag gtgtggacca gtcacatgaa gaggaccatc cagacagctg aggcc 895

<210> 49
 <211> 1294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524680CB1

<400> 49
 tctgtaaatg caagagaacc gagtggtgga taattagcga tggaaagaaaa aacctctaga 60
 ataaaagtgt ttaattttagg ccagtatcga cgagaggcag tgagctacaa gaactatgaa 120
 ttcttccttc cagacaacat ggaagccctg caaatcagga agcagtgcgc cctggcagcc 180
 ctgaaggatg ttccacaacta ttcagccat gaggaaaggc atgttgcggc ttttgcgtt 240
 accaacaacta ccagagaacg acggtaactg atcctgcagt ttgcacaaaga acatggttac 300
 aagggtttt tcatttgatc cattttgtaat gaccctggca taattgcaga aacacatcagg 360
 caagtggaaac ttggcagccc tgattataa gactgtgacc gggaaaaggt tctggaaagac 420
 tttctaaaga gaattggatg ctatggatc aactaccaac ctttgcgtt ggaactggac 480
 agccacctgt cctacatcaa gatcttcgac gtggccacac gctacatgtt gaaaccggatg 540
 caggatcaca tccagagccg cacagtctac tacccatga atatccatgt cacacccgc 600
 tccatctacc tttgcggaca tggcgagatg gaactcaaca tcagaggccg catcgagggt 660
 gactctggcc tctcagttcg cggcaagcag tatgcctatg ccctggccaa cttcattcag 720
 tcccaggggca tcagctccctt gaagggtgtt accagtacaa tgaaggagac catccagaca 780
 gctgaggccc tgggtgtccc ctatggatc tggaaaggccc tgaatgagat tggatgcgggt 840
 gtcgtgtgagg agatgaccta tgaagaaaatc caggaacatt accctgaaga atttgcactg 900
 cgagaccaag ataaatatcg ctaccgctat cccaaaggag agtccatgtt ggtatctgg 960
 cagcgtctgg agccagtgtt aatggagatc gaacgcacagg agaatgtact ggtatctgc 1020
 caccaggctg tcatgcgggt cctcctggcc tatttcctgg ataaaagttc agatgagctt 1080
 ccatatctca agtgcctct gcacacagtg ctcaaactca ctccctgtggc ttatggctgc 1140
 aaagtggaaat ccatctacatc gaatgtggag accgtgaaca cacacccggaa gaagcctgag 1200
 aatgtggaca tcacccggaa acctgaggaa gcccggata ctgtcccaagc ccactactga 1260
 gccccttcca agaagtcaaaa ctgcctgtgt ccta 1294

<210> 50
 <211> 1354
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7524757CB1

<400> 50

tctgtaaatg caagagaacc gagtgttgga taattagcga tggaaagaaaa aacctctaga 60
 ataaaagcat ccatacccca gtttaccaat tcccccacaa tggtgatcat ggtgggttta 120
 ccagctcgag gcaagaccta tatctccaca aagtcacac gatatctcaa ctggatagga 180
 acaccaacta aagacaacat ggaagccctg caaatcagga agcagtgcgc cctggcagcc 240
 ctgaaggatg ttcacaacta ttcagccat gagaaggtc atgttgcgt tttgatgcc 300
 accaacacta ccagagaacg acggtaactg atcctgcagt ttgc当地 acaatggttac 360
 aaggtgttt tcattgagtc cattttaat gaccctggca taattgcaga aacatcagg 420
 caagtgaaac ttggcagccc tgattatata gactgtgacc gggaaaaggt tctggaaagac 480
 ttctaaaga gaattgagtg ctatgaggc aactaccaac ccttggatga ggaactggac 540
 agccacctgt cctacatcaa gatctcgac gtgggcacac gctacatggt gaaccgagtg 600
 caggatcaca tccagagccg cacagtctac tacctcatga atatccatgt cacaccccg 660
 tccatctacc ttgcgacca tggcgagagt gaactcaaca tcagaggccg catcgagg 720
 gactctggcc tctcagttcg cggcaagcag tatgcctatg ccctggccaa cttcattcag 780
 tcccgaggca tcagctccct gaagggtgtgg accagtccata tgaagaggac catccagaca 840
 gctgaggccc tgggtgtccc ttagtgccag tggaaaggccc tgaatgagat ttagtgcgggt 900
 gtcgtgagg agatgaccta tgaagaaatc cgggaacatt accctgaaaga atttgcactg 960
 cgagaccaag ataaatctcg ctaccgctat cccaaaggag agtcctatga ggtatctgg 1020
 cagcgtctgg agccagtgt aatggagctt gaacgacagg agaatgtact ggtatctgc 1080
 caccaggctg tcatgcgtt ctcctggcc tatttctgg ataaaagttc agatgagctt 1140
 ccatatctca agtgcctct gcacacagt ctc当地 actca ctcctgtggc ttatggctgc 1200
 aaagtggaaat ccatctacct gaatgtggag gccc当地 gacaccggga gaaggctgag 1260
 aatgtggaca tcacccggga acctgaggaa gccc当地 ctgtcccagc ccactactga 1320
 gccc当地 ctaa agaagtccaa ctgcctgtgt ccta 1354

<210> 51
 <211> 1204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7516229CB1

<400> 51
 agagggcggg tccccggcct cgggagcacg ggggtggagg ggacatagga ggcggccatg 60
 ggcacccccc gcaacctagg gtcctctgtc ctggcgagca agaccaagac caagaagaag 120
 caattcgtag cgcagaaaatg gaagctgttt cggggcagcg acccgctgct cagcgtctc 180
 atgtgggggg taaaccactc gatcaatgaa ctgagccatg ttcaaattccc tttatgttg 240
 atgccagatg acttcaaagc ctattcaaa ataaagggtgg acaatcacct tttaacaaa 300
 gaaaacatgc cgagccattt caagtttaag gaatactgcc cgatggctt ccgtaaacctg 360
 cgggagaggt ttggaaattga tgatcaagat ttccactaca tagtggaaatg tcatggatc 420
 acccttcttc cccagttctt gggcatgtac cggcttaatg ttgatggagt taaaatata 480
 gtatagttt caagaaatgt attcagccac cgtttgtctg tttatggaa atacgactta 540
 aagggtctca cagtggctag agaagctagt gacaaagaaa aggccaaaga actgccaact 600
 ctgaaagata atgatttcat taatgaggc caaaagattt atattgatga caacaacaag 660
 aaggcttcc tggaaaaact aaaaaggat gttgatgttcc tggccagct gaagctcatg 720
 gactacagtc tgctggggg aattcatgtat gtggagagag cc当地 acaggagtg 780
 tgtgaggaga acgatggggg ggaggagggc gagagcgtat gcacccaccc ggtggaaacc 840
 cccccagata gccccggaa tacactgaac agctcaccac cc当地 gggttcc cggggagttc 900
 gatccgaaca tcgacgtcta ttggaaattaaatg tgccatgaaa actgccttag gaaggaggtg 960
 tacattcatgg caattattga catccttaact cattatgtat caaaaaaaaa agtgcctcat 1020
 gctgaaaaaa ctgtttaaaca tggcgctggc gcggagatct ccaccgtgaa cccagaacag 1080
 tattcaaaagc gcttttggc ctttattggc cacatcttga cgttaacctcc tgccgagcc 1140
 cggacagaca tgaacattgg agggacagag gtggcttgc agaacgaatt gcagcacact 1200
 gcgg 1204

<210> 52
 <211> 1859
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7516525CB1

<400> 52
caacaaggct acgcagaaga acccccgtga ctgaagcaat ggaggggggt ccagctgtct 60
gctgccagga tcctcgggca gagctggtag aacgggtggc agccatcgat gtgactcact 120
tggaggaggc agatggtggc ccagagccta ctagaaacgg tggacccccc ccaccacggg 180
ccagagctgc ctctgtgate cctggcagta cttcaagact gctcccagcc cggccctagcc 240
tctcagccag gaagcttcc ctacaggagc ggccagcagg aagctatctg gaggcgcagg 300
ctgggcctta tgccacgggg cctggcagcc acatctcccc cggggcctgg cggaggccca 360
ccatcgagtc ccaccacgtg gcatctcag atgcagagga ctgcgtcag ctgaaccagt 420
acaagctgca gagttagatt ggcaagggtg cctacgggtgt ggtgaggccg gcctacaacg 480
aaagtgaaga cagacactat gcaatgaaag tcctttccaa aaagaagttt ctgaagcagt 540
atggcttcc acgtcgccct ccccccggag ggtcccaggc tgcccaggga ggaccagcca 600
agcagctgct gcccctggag cgggtgtacc aggagattgc catcctgaag aagctggacc 660
acgtgaatgt gtc当地actg atcgagggtcc tggatgaccc agctgaggac aaccttatt 720
tggccctgca gaaccaggcc cagaatatcc agtttagattc aacaatatc gccaagcccc 780
actccctgct tcctctgag cagcaagaca gtggatccac gtgggctgctg cgctcagtgt 840
ttgacccctcct gagaaagggg cccgtcatgg aagtgcctg tgacaagccc ttctcgagg 900
agcaagctcg cctctacctg cgggacgtca tccctggccct cgagtacttg cactgccaga 960
agatcgcca cagggacatt aagccatcca acctgtccct gggggatgtat gggcacgtga 1020
agatcgccga ctttggcgtc agcaaccagt ttgagggggaa cgacgctcag ctgtccagca 1080
cggcgggaac cccagcattt atggcccccg aggccatttc tgattccggc cagagcttca 1140
gtgggaaggc ctggatgtt tggggactg gctcacgtt gtactgttt gtctatggga 1200
agtccccgtt catcgacgtt ttcatctgg ccctccacag gaagatcaag aatgagcccc 1260
tgggtttcc tgagggggcca gaaatcagcg aggagctcaa ggacctgatc ctgaagatgt 1320
tagacaagaa tcccgagacg agaattgggg tgccagacat caagttgcac ctttgggtga 1380
ccaagaacgg ggaggagccc attccttcgg aggaggagca ctgcagcgtg gtggaggtga 1440
cagaggagga gttttagaaac tcagtcaggc tcatccccag ctggaccacg gtgatctgg 1500
tgaagtccat gctgaggaag cgttccttgc ggaacccgtt tgagccccaa gcacggaggg 1560
aagagcgatc catgtctgtt ccaggaaacc tactggtagaa agaagggttt ggtgaagggg 1620
gcaagagccc agagctcccc ggcgtccagg aagacgaggc tgcatcctga gccccctgc 1680
gcacccaggc ccacccggca gcacactcat cccgcgcctc cagaggccca cccctcatgc 1740
aacagccgccc cccgcaggca gggggctggg gactgcagcc ccactccccgc ccctccccca 1800
tcgtgtcgca tgacccctcac gcacgcacgt ccagggacag actggatgt atgtcattt 1859

<210> 53
<211> 1695
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7516533CB1

```

<400> 53
actgaggccta agcagccgggt gatggcggca gcccgtgtgg tggctgcggc gggtcgggc 60
ccatgaggcg acgaaggagg cgggacggct ttaccacagc cccggacttc cgagacaggg 120
aagctgagga catggcagga gtgtttgaca tagacctgga ccagccagag gacgcgggct 180
ctgaggatga gctggaggag gggcaatga tagtaagaaa tgctaaagat acagctcata 240
caaaaagcaga acggaatatt ctggaggaag taaagcatcc cttcatctgt gatctaattt 300
atgccttca gactgggtgga aaactctacc tcattccttga gtatctcagt ggaggagaac 360
tatttatgca gttagaaaga gaggaaatat ttatggaaga cactgcctgc tttacttgg 420
cagaaatctc catggctttg gggcatttac atcaaaaaggg gatcatctac agagacctga 480
agccggagaa tatcatgctt aatcaccaag gtcatgtgaa actaacagac ttggactat 540
gcaaaagaatc tattcatgat ggaacagtca cacacacatt ttgtggaaca atagaataca 600
tggcccttga aatcttgat agaagtggcc acaatctgtc tggatttgg tggagtttgg 660
gagcatataat gtatgacatg ctgtactggag cccccccatt cactggggag aatagaaaaga 720
aaacaattga caaaatctc aaatgtaaac tcaatttgc tcctctactc acacaagaag 780
ccagagatct gctaaaaaag ctgctgaaaaa gaaatgtgc ttctcgctg ggagctggc 840
ctggggacgc tggagaagtt caagctcatc cattctttag acacattaaac tgggaagaac 900
ttctggctcg aaagggtggag ccccccttta aacctctgtt gcaatctgaa gaggatgtaa 960
gtcagttga ttccaagttt acacgtcaga cacctgtcga cagcccagat gactcaactc 1020
tcagtgtaaag tgccaatcag gtcttctgg gtttacata tggctgcctca tctgtacttg 1080
aaagtgtgaa agaaaagttt tccttgaac caaaaatccg atcacctcga agatttattt 1140
gcagccacacg aacacacgtc agcccagtca aattttctcc tggggatttc tggggaaagag 1200
gtgcttcggc caqcgccagca aatcctcaga cacctgtgga atacccaatg gaaaacaatgt 1260

```

```

gcatagagca gatggatgtg acaatgagtg gggaaagcattc ggcaccactt ccaatacgac 1320
agccgaactc tgggccatac aaaaaacaag cttttcccat gatctccaaa cggccagagc 1380
acctgcgtat gaatctatga cagagcatgc ttttaatgaa tttaaggcaa aaagggtggag 1440
agggagatgt gtgagcatcc tgcaaggtga aacgactcaa aatgacagtt tcagagagtc 1500
aatgtcatta catagaacac ttccagacaca ggaaaaataa acgtggattt taaaaaaatca 1560
atcaatggtg caaaaaaaaaa cttaaagcaa atagttatgc tgaactctta ggcacatcaa 1620
ttaatttgatt cctcgcgaca tcttctcaac ctttatcaagg attttcatgt tgatgactcg 1680
aaactgacag tatta                                         1695

```

<210> 54
<211> 3891
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7516613CB1

<400> 54
agagcgacag agacatttat tgttatttgc tttttgggtgg caaaaaggaa aatggcgaa 60
cgactcccgt gcaaaaaagtc tgggtggacat cgacctctcc tccctgcggg atcctgctgg 120
gattttgag ctgggtggaa tggttggaaa tggcacctat ggacaagtct ataagggtcg 180
acatgttaaa acgggtcagt tggcagccat caaagttatg gatgtcactg aggatagaaga 240
ggaagaaatc aaactggaga taaatatgct aaagaaatac tctcatcaca gaaacattgc 300
aacatattat ggtgtttca tcaaaaagag ccctccagga catgatgacc aactctggct 360
tgttatggag ttctgtgggg ctgggtccat tacagacccgt gtgaagaaca ccaaaggaa 420
cacactcaa gaagactgga tcgcttacat ctccagagaa atcctgaggg gactggcaca 480
tcttcacatt catcatgtga ttcaccggga tatcaagggc cagaatgtgt tgctgactga 540
gaatgcagag gtgaaacttg ttgactttgg tggactgtct cagctggacg ggactgtggg 600
gcgggaaaat acgttcatacg gcactcccta ctggatggct cctgagggtca tcgcctgtga 660
tgagaaccctc gatgcccacccat atgattacag aagtgtatctt tggcttctgtg gcattacagc 720
cattgagatg ggggaaagggtg ctccccctct ctgtgacatg catccaatga gagcactgtt 780
tctcatcccc agaaaaccctc ctccccggct gaagtcaaaa aatgggtcga agaagtttt 840
tagtttata gaagggtgccc tggtaaagaa ttacatcgac cggccctcta cagagcagct 900
tttggaaacat cttttataaa gggatcagcc aatgtggaaagg caagttagaa tccagcttaa 960
ggatcatata gatcgatcca ggaagaagag aggccatgtt gatgaaactg agtatgagta 1020
cagtgggagt gaggaagaag aggaggaaat gcctgacacg gaaggagacg caagttccat 1080
tgtgaacgtg cctgggtgagt ctactctcg ccgagattc ctgagactgc agcaggagaa 1140
caaggaacgt tcggaggctc ttggagaca acagttaatc caggagcaac agctccggga 1200
gcagggaaaataaaaaggc aactgctggc agagagacag aagcggattg agcagcagaa 1260
agaacagagg cgacggctag aagagcaaca aaggagagag cgggaagcta gaaggcagca 1320
ggaacgtgaa cagcgaagga gagaacaaga aaaaaagagg cgtctagaggg agttggagag 1380
aaggcgcaaa gaagaagagg agaggagaca ggcagaagaa gaaaagagga gagttgaaag 1440
agaacaggag tatatcaggc gacagctaga agaggaggc cggcacttgg aagtcttca 1500
gcagcagctg ctccaggaggc aggccatgtt actgcatgac cataggaggc cgcacccgca 1560
gcactcgac cagccgcccac caccggcagca gaaaaggagc aagccaagct tccatgctcc 1620
cgagcccaaa gccactacag agcctgctga ccgagctc gggaaacgct tgagacaac 1680
atctcgctcc cctgttctgt cccgtcgaga ttccccactg cagggcagtg ggcagcagaa 1740
tagccaggca ggacagagaa actccaccag cagtatttag cccaggcttc tggggagag 1800
agtggagaag ctgatgccc gacctggcag tggcagctcc tcagggtcca gcaactcagg 1860
atcccagccc gggtctcacc ctgggtctca gagtggctcc ggggaacgct tcagagttag 1920
atcatcatcc aagtctgaag gctctccatc tcagcgctc gaaaatgcag tgaaaaaacc 1980
tgaagataaa aaggaagttt tcagacccct tcagcctgtct gatctgaccg cactggccaa 2040
agagcttcga gcagtggaaat atgtacggcc acctcacaatc gtaacggact actccatc 2100
cagtggagg cccgggacga cggatgagga ggacgacgat gtggagcagg aaggggctga 2160
cgagtccacc tcgaggaccag aggacaccag agcagcgtca tctctgaatt tgagcaatgg 2220
tgaaaacggaa tctgtggaaa ccatgattgt ccatgatgat gtgaaaagtg agccggccat 2280
gaccatccatcc aaggagggca ctcttaatcgt ccggcagagt acagttgacc aaaagcgtgc 2340
cagccatcat gagagcaatg gctttggccgg tcgcatttcac ctcttggccat atctttaca 2400
gcaaaaggcat tcctcctcca cttccctccac ctcccttcc ccatcctcca gccagccgac 2460
acccaccatg tccccacaga caccggcagga caagctcaact gctaattgaga ctcagtcgc 2520
tagtagcaca ctccagaaac acaaatttc ctcctccctt acaccttttta tagacccctcg 2580
attactacag atttcctccat cttagggaaac aacagtgaca tctgtgggtgg gattttcctg 2640
tgatgggatg agaccagaag ccataaggca agatcctacc cggaaaaggct cagtgttca 2700

tgtgaatctt	accaacacta	ggccacagag	tgacaccccg	gagattcgta	aatacaagaa	2760
gagggttaac	tctgagattc	tgtgtctgc	cttatgggaa	gtgaatttgc	tagtgggtac	2820
agagagtggc	ctgatgctgc	tggacagaag	tggccaaggg	aaggtctatc	ctcttatcaa	2880
ccgaagacga	tttcaacaaa	tggacgtact	tgagggctt	aatgtcttgg	tgacaatatc	2940
tggcaaaaag	gataagttac	gtgtctacta	tttgcctgg	ttaagaaaata	aaatacttca	3000
caatgatcca	gaagttgaga	agaagcaggg	atggacaacc	gtaggggatt	tggaaggatg	3060
tgtacattat	aaagttgtaa	aatatgaaag	aatcaaattt	ctggtgattt	ctttgaagag	3120
ttctgtggaa	gtctatgcgt	gggcaccaaa	gccatatcac	aaatttatgg	cctttaagtc	3180
atttggagaa	tttgtacata	agccattact	ggtggatctc	actgttgagg	aaggccagag	3240
gttgaagtg	atctatggat	cctgtctgg	attccatgtc	gttgatgtgg	attcaggatc	3300
agtctatgac	atttatctac	caacacat	ccagtgtacg	atcaaacc	atgcaatcat	3360
catcctcccc	aatacagatg	aatggagct	tctgggtgtc	tatgaagatg	aggggttta	3420
tgtaaacaca	tatggaaagg	tcaccaagga	tgtagttca	cagtggggag	agatgcttac	3480
atcagtagca	tatattcgt	ccaaatcagac	aatgggtctgg	ggagagaaagg	ccatagagat	3540
ccgatctgt	gaaactggtc	acttggatgg	tgtgttcatg	cacaaaaggg	ctcaaagact	3600
aaaattctt	tgtgaacgca	atgacaaggt	gttcttgc	tctgttcgg	ctggggcag	3660
cagtcagg	tatttcatga	ccttaggcag	gacttctt	ctgagctgg	agaagcagt	3720
tgatccagg	attactggcc	tccagagtct	tcaagatct	gagaacttgg	aattccttgt	3780
aactggagct	cggagctgca	ccgagggcaa	ccaggacagc	tgtgtgtc	gacctcatgt	3840
gttgggttct	ctccccctct	tcctgttctt	cttatatacc	agtttatccc	c	3891

<210> 55
<211> 3954
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7517068CB1

<400> 55
atttctccag cgaagaagta gacatggcga gcgactcccc ggctcgaagc ctggatgaaa 60
tagatctctc ggctctgagg gaccctgcag ggatcttga attggatggaa cttgttgaaa 120
atggaacata cgggcaagtt tataagggtc gtcatgtcaa aacggggccag cttgcagcca 180
tcaagggtat ggtatgtcaca gggatggaa aggaagaaat caaacaagaa attaacatgt 240
tgaagaaata ttctcatcac cggaatattg ctacatacta tggtgctttt atcaaaaaga 300
acccaccagg catggatgac caacttttgt tggtgatgga gtttggatgt gctggctctg 360
tcaccgaccc gatcaagaac acaaaaaggta acacgttggaa agaggagtgg attgcataca 420
tctgcaggga aatcttacgg gggctgatgc acctgtcaca gcataaaagtg attcatcgag 480
atattaaagg gcaaaaatgtc ttgctgactg aaaaatgcaga agttaaacta gtggactttt 540
gagtcatgtc tcagcttgcat cgaacagtgg gcaggagggaa tactttcatt ggaactccct 600
actggatggc accagaagtt attgcctgtg atgaaaaccc agatgccaca tatgatttca 660
agagtactt gtttttgcgtt ggtatcaccg ccattgaaat ggcagaagggt gtcffffctc 720
tctgtgacat gcaccccatg agagctctct tcctcatcccc ccggaatccca ggcctcggc 780
tgaagtctaa gaagtggtca aaaaaattcc agtcatttat tgagagctgc ttggtaaaga 840
atcacagcca gcgaccagca acagaacaat tgatgaagca tccatttata cgagaccaac 900
ctaattgagcg acaggctccgc attcaactca aggaccatata tgatagaaca aagaagaagc 960
gaggagaaaa agatgagaca ggtatgttgc acagtggaaag tgaggaagaa gaggaggaga 1020
atgactcagg agagcccccagc tccatcctga atctgccttcgg ggagtgcacg ctgcggaggg 1080
actttcttag gctgcagctg gccaacaagg agcgttctga ggccttacgg aggcacgc 1140
tggagcagca gcagcggggag aatgaggagc acaaggccca gctgctggcc gagcgtcaga 1200
agcgcacatcgaa ggagcagaaaa gggcagggcgc ggcggcttggaa ggagatccca catctggtag 1260
ctgtaaaatc ccaggggaccc gccttgcaccg cctcccaatc agtgcacgag cagcccacaa 1320
aggccccttc tgggtttcag gaggctctga acgtgaccctc ccacccgcgtg gagatgccac 1380
gccagaactc agatcccacc tggaaaatc ctcctctccc cactcgccatt gaaaatgtt 1440
accgaagtc ttggttacga caggaagaag acatccacc aaagggtccct caaagaacaa 1500
cttctatacc cccagcattt gccagaaaaga attctcttcgg gaatggtagt gctctggac 1560
ccagactagg atctcaaccc atcagagca gcaaccctga tctccggaga actgagccca 1620
tcttggagag ccccttgcag aggaccagca gtggcagttc cttccagctcc agcaccctta 1680
gctcccagcc cagctcccaa ggaggctccc agcctggatc acaaggcaggaa tccagttggac 1740
gcaccagagt tcgagccaaac agtaagtctgg aaggatcacc tggcttccc catgagcctg 1800
ccaagggtgaa accagaagaa tccaggggaca ttacccggcc cagtcgacca gctgatctga 1860
cgccatttagc caaagaacta agagaactcc ggattgaaga aacaaaccgc ccaatgaaga 1920
aggtgactga ttactcctcc tccagtgagg agtcagaaag tagcgaggaa gaggaggaag 1980

atggagagag cgagacccat gatggacag tggctgtcag cgacataccc agactgatac 2040
caacaggagc tccaggcagc aacgagcagt acaatgtggg aatgggggg acgcattggc 2100
tggagacctc tcatgcggac agttcagcg gcagttttc aagagaagga accttgcata 2160
ttagagagac gtctggagag aagaagcgat ctggccacag tgacagcaat ggcttgcgt 2220
gccacatcaa cctccctgac ctggcgcagc agagccattc tccagctgga accccgactg 2280
aggactggg ggcgtctca acccattccc agagatgga ctctggact gaatatggca 2340
tggggagcag caccaagcc tccttcaccc ccttggta ccccagagta taccagacgt 2400
ctcccaactga tgaagatgaa gaggatgagg aatcatcagc cgcagctcg tttactagcg 2460
aacttcttag gcaagaacag gccaaactca atgaagcaag aaagattcg gtggtaaatg 2520
taaacccaac caacattcgg cctcatagcg acacaccaga aatcagacaa tacaagaaac 2580
gattcaactc agaaatactt tgtgcagctc tgggggtgt aaacctctg gtggggactg 2640
aaaatggcct gatgctttg gaccgaagtgg caaggcaaa agtctataat ctgatcaacc 2700
ggaggcgatt tcagcagatg gatgtgctag agggactgaa tgccttgc acaatttcag 2760
gaaagaagaa taagctacga gtttactatc ttcatgggt aagaaacaga atactacata 2820
atgacccaga agtagaaaag aaacaaggct ggatcactgt tggggacttg gaaggctgta 2880
tacattataa agttgttaa tatgaaaagga tcaaattttt ggtgattgcc ttaagaatg 2940
ctgtggaaat atatgcttg gctcctaaac cgtatcataa attcatggca ttaagtctt 3000
ttcagatct ccagcacaag cctctgctag ttgatctcac ggtagaagaa ggtcaaagat 3060
taaagggttat ttgtgttca cacaactggg tccatgtat tgcgtgtat tcaggaaact 3120
cttatgatat ctacatcca tctcatattc agggcaatgc cactccatcat gctattgtca 3180
tcttcctaa aacagatgga atggaaatgc ttgtgtctaa tgaggatg ggggtttatg 3240
tagacaccta tggccggata actaaggatg ttgtgctcca atggggagaa atgcccacgt 3300
ctgtggccta cattcattcc gatcagataa tgggctgggg cgagaaagct attgagatcc 3360
ggcagtggaa aacagacat ttggatggag tatttgcata taagcgagct caaaggtaa 3420
agtttctatg tgaaagaaat gataaggat ttttgcata cgtgcgtatc ggaggaagta 3480
gccaagtgtt tttcatgacc ctcaacagaa attccatgat gaaactgtaa cagaagagca 3540
cttggcactt atcttcatgg cgttattttc aattttaaag aacataactc atgtggactt 3600
atgccagtct agaggcagaa tcagaaggct ttgttgcata ttcgccttc ccttttcct 3660
ctccctccgc ccctccctgt acagtccatc ttcaatgtt gcagccctgt tgagaaggag 3720
agaaaaaagggt ggcagaatt tccaggagat ccccaagaat gctgccttgc ctgtggacaa 3780
agatggacca tgcgccttc ggaatttaggg atagaaacaa atattgtgtg ctcttaacga 3840
ttaagctgtg ttatgtggg ttttcaggtt ttacctttt ttctttaccc ctctactctg 3900
caagaatggg gaaagaatgc atactgcgca aatgagtctt taaaattctg tctg 3954

<210> 56
<211> 3357
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7517148CB1

<400> 56

agtgtgtgg aattcgcgcc ttttacgcca aagctcgcca acatggcgga cctggaggct 60
gtgctggccg atgtcagttt cctgatggcc atggagaaga gcaaggcgac cccggccgccc 120
cgcccgacca agaggatcg tctggccggag cccagttatcc ggagtgtgat gcagaagtac 180
cttgcagaga gaaatgaaat aacccttgc aagattttca atcagaaaat tggttcttg 240
ctattnaaat attttgcata gaatgaaatt aatgaagctg tacctcaggt gaagttttat 300
gaagagataa aggaatatga aaaacttgc aatgagggaa accgccttgc cagaagtcga 360
caaattttat atgcctacat catgaaggaa cttcttcct gttcacatcc tttctcaaaag 420
caagctgttag aacacgtaca aagtccattt tccaagaaac aagtgcacatc aactctttt 480
cagccataca tagaagaaat ttgtgaaagc cttcgagggt acattttca aaaattttat 540
gaaagtgcaca agttcactag attttgcata tggaaaaacg ttgaattaaa tatccatttg 600
accatgaatg agttcagtgt gcataggatt attggacgag gaggattcgg ggaagtttat 660
ggttgcagga aagcagacac tggaaaaatg tatgcataa aatgcttgcata taagaagagg 720
atcaaaaatga aacaaggaga aacatttgc ttaaatgaaa gaatcatgtt gtctttgtc 780
agcacaggag actgtccctt cattgtatgt atgcacatgc cttccatac cccagataaa 840
ctctgcgtca tcctggatct gatgaacggg ggcgatttgc actaccacat ttcacaacac 900
ggtgtgttct ctgagaagga gatgcgggtt tatgccactg aaatcattct ggtctggaa 960
cacatgcaca atcggtttgt tgcgtacaga gatttgc gacaaatat tctcttgat 1020
gaacatggac acgcaagaat atcagatctt ggttgcct gcgattttc caaaaagaag 1080
cctcatgcga gtgttgcac ccatgggtac atggctcccg aggtgcgtca gaaggggacg 1140
gcctatgaca gcagtgcgca ctgggtctcc ctgggtgcga tgctttcaacttctgata 1200

ggtcacagcc ctttcagaca acataaaaacc aaagacaaga atgaaaattga cggaaatgaca 1260
ctcaccgtga atgttggact tccagacacc ttctctcctg aactgaagtc ccttttggag 1320
ggcttgcctc agcgagacgt tagcaagcgg ctgggctgtc acggaggcgg ctcacaggaa 1380
gtaaaagagc acagctttt caaagggttt gactggcagc atgtctactt acaaaagtac 1440
ccaccaccct tgattcctcc cggggagaa gtcaatgctg ctgatgcctt tgatattggc 1500
tcatttgcgt aagaggatac caaagggtt aagctactt attgcgacca agaactctac 1560
aagaacttcc ctttggtcat ctctgaacgc tggcagcaag aagtaacggaa aacagttat 1620
gaagcagtaa atgcagacac agataaaaatc gaggccagga agagagctaa aaataagcaa 1680
cttggccacg aagaagatta cgctctgggg aaggactgta ttatgcacgg gtacatgctg 1740
aaactggaa acccatttct gactcagtgg cagcgtcgct atttttacct ctttccaaat 1800
agacttgaat ggagaggaga gggagagtcc cggagtgatc cagagttgt gcagtggaaag 1860
aaagagggtga acggaaacctt caaggaggcc cggcggctat tgcgtcgtgc cccgaagttc 1920
ctcaacaaac ctcggtcagg tactgtggag ctcacagaaac 1980
agcaacggcc tctagcaccc agaaacaggg agggtcctcg aggaggacac accagggct 2040
cagccttttgggtgaacgaa ggatgaggca tctgtatctat tcgctaccgg gactcctcca 2100
ggctcccgag aggagtgcggg accccttcggc ttggggtcag ctcagctccc tgccttgtca 2160
catttgcgtg catttagaaac tactgaagaa ataaaaggtc ttttcttttgc 2220
tggtacctat gaaccttagaa cttgaagtga ctacacactt 2280
gatatacaaac acatcttaga ctccccagaa tccctactta tcacgtaaat 2340
cagattgccc taagcattgc cacatattct tggaaatttaa agatgttcag tggtggtaa 2400
gctccatact gcaagggggat gggagagcca gtctagtcgc tgcgtatttt ctatgtctt 2460
gacttctgt cttgggggtt aaagggttgc atatttctg atgatattaa aagttgaaga 2520
tatttctgca ctggggccct cctctggag cagtgatc cccgaccac 2580
cagttgttc cggggggcccc tcagccaggat gggaaatgacg gacacgtact atccaagtgt 2640
atgggattaa ctaatcattt aaggcattca tccgtccatc attggaaaga ttcagggttgc 2700
ttctgaagga caggccgtgg agttttaggt tcaaaagtct 2760
ttgagttccag tttgcacgag tcgacaagca gtacctggca tgcaaggagca 2820
agtccgtctc agtctcgac aatttagcgt tttgtgacag tcattctgtt ctcctctgccc 2880
tgaccctggg agacatatac gtaatggat tacaaaaagca ggtctgtttt atgtcttagt 2940
ataatttcag atgaatttgc ttgaaaaaat gctgaggaat gaatgtgtca aatgggtta 3000
actgtgtata ttgactttca tgcgtcatc catctgtcatc 3060
tgggctgtac gacagtgggg acctttagggc atgaagcctt tttcctggc ccagcagcat 3120
ctggccctgtg aagtttgcgtt tctccactg cctccaggcc 3180
atgctgggtt atgagaacca gcgaaatccc ccatgtcatc agtcttaaaa aaaaaatttt 3240
acaaaatccac gtatttgcctt cattttggaa gtagtttttag tttatgtctt tacatataact 3300
actaacagta taataactt gacatcgtaa ttgtctgcatttgc cctgtcccttgc atatttt 3357

<210> 57
<211> 2036
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7517238CB1

```

<400> 57
aagattctta ggaacgcgcgt acctggccgcg tctctcagga cagcaggccc ctgtccttct 60
gtcggggcgcc gctcagccgt gcccctccgccc cctcagggttc tttttctaat tccaaataaa 120
cttgcaagag gactatgaaa gattatgatg aacttctcaa atattatgaa ttacatgaaa 180
ctattggac agtgtggctt gcaaaggta aacttgccctg ccatatccctt actggagaga 240
tggtagctat aaaaatcatg gataaaaaaca cactaggag tgatttgcctt cggatcaaaaa 300
cgagattga ggccttgaag aacctgagac atcagcatat atgtcaactc taccatgtgc 360
tagagacagc caacaaaata ttcatggttc ttgaggaaaa tttgctgttt gatgaatatc 420
ataaaataaa gctgattgac ttgggtctct gtgaaaacc caagggttaac aaggattacc 480
atctacagac atgctgtggg agtctggctt atgcagcacc tgagttataa caaggcaaat 540
catatcttgg attagaggca gatgtttggat gcatggccat actgttatat gttcttatgt 600
gtggatttct accatttgat gatgataatg taatggctt atacaagaag attatgagag 660
gaaaatatga tggcccaag tggctctctc ccagtagcat tctgcttctt caacaaatgc 720
tgcaggtgga cccaaagaaa cggatttcta tggaaaaatctt attgaaccat ccctgatca 780
tgcaagatta caactatctt gttgagtggc aaagcaagaa tccttttatt cacctcgatg 840
atgattgcgt aacagaactt tctgtacatc acagaaaacaa caggcaaaaca atggaggatt 900
taatttcact gtggcagtat gatcacctca cggctaccta tcttctgtttt ctagccaaga 960
aggctcgcccc aaaaccagtt cgtttaaggc tttttttttt ctccctgtggaa caagccatgt 1020

```

ctacccatt cacagacatc aagtcaaata attggagtct ggaagatgtg accgcaagtg 1080
 ataaaaatta tgtggcgaaa ttaatagact atgattggtg tgaagatgtat ttatcaacag 1140
 gtgctgctac tccccgaaca tcacagttt ccaagtactg gacagaatca aatggggcg 1200
 aatctaaatc attaactcca gccttatgca gaacacctgc aaataaatta aagaacaaag 1260
 aaaatgtata tactcctaag tctgctgtaa agaatgaaaaa gtactttatg tttcctgagc 1320
 caaagactcc agttaataag aaccagcata agagagaaaat actcactacg ccaaatacg 1380
 acactacacc ctcaaaagct agaaaccagt gcctgaaaga aactccaaatt aaaataccag 1440
 taaattcaac aggaacagac aagttaatga caggtgtcat tagccctgag aggcgggtgcc 1500
 gctcagtggaa attggatctc aaccaagcac atatggagga gactccaaaa agaaagggag 1560
 ccaaagtgtt tgggagcctt gaaagggggt tggataaggt tatcactgtg ctcaccagga 1620
 gcaaaaggaa gggttctgcc agagacgggc ccagaagact aaagcttcac tataatgtga 1680
 ctacaactag attagtgaat ccagatcaac tggtaatga aataatgtct attcttccaa 1740
 agaagcatgt tgacttgcataaaaagggtt atacactgaa gtgtcaaca cagtcaagatt 1800
 ttggaaagat gacaatgcaa tttgaattag aagtgtgcca gcttccaaaa cccgatgtgg 1860
 tgggtatcaag gaggcagcgg cttaaaggcg atgcctgggt ttacaaaaga tttagtggaaag 1920
 acatccatc tagctgcaag gtataattga tggattctc catcctgccc gatgagtgtg 1980
 ggtgtgatac agcctacata aagactaaga gcgaattcgc agcacactga cgccgg 2036

<210> 58
 <211> 2541
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7518685CB1

<400> 58

ccgcagtgtg ctggaaattcg ctttcctca cctacttata gactatttt cttgctctgc 60
 agcatggacc aaagagaaaat tctgcagaag ttcctggatg aggcccaaag caagaaaatt 120
 actaaagagg agtttgcataa tgaatttctg aagctgaaaaa ggcaatctac caagtacaag 180
 gcagacaaaaa cctatccatc aactgtggct gagaagccca agaatatcaa gaaaaacaga 240
 tataaggata ttttgcctca tgattatagc cgggtagaac tattccctgat aacctctgat 300
 gaggattcca gctacatcaa tgccaaacttc attaagggag tttatggacc caaggcttat 360
 attgccaccc agggtcctt atctacaacc ctcctggact tctggaggat gatttggaa 420
 tatagtgtcc ttgaaactcg aactatctac cagtttcatt acgagaattt gccagaccat 480
 gatgtacattt catctataga ccctattttt gagctcatct gggatgtacg ttgttaccaa 540
 gaggatgaca gtgttcccat atgcattcac tgcagtgtg gctgtgaaag gactgggttt 600
 atttgtgcta ttgattatac atggatgtt ctaaaagatg ggataattcc tgagaacttc 660
 agtgtttca gttgtatccg gggaaatgcgg acacagaggc cttcatatgt tcaaacgcag 720
 gaacaatatg aactgtgtca caatgctgtt ttagaactat ttaagagaca gatggatgtt 780
 atcagagata aacattctgg aacagagagt caagcaaagc attgtattcc tgagaaaaat 840
 cacactctcc aagcagactc ttattctcct aatttaccaa aaagtaccac aaaagcagca 900
 aaaatgtatca accaacaatg gacaaaaatg gaaatcaaag aatcttctc ctttgacttt 960
 aggacttctg aaataagtgc aaaagaagag ctagtttgc accctgctaa atcaagcact 1020
 tcttttgcact ttctggagct aaattacagt tttgacaaaaa atgctgacac aaccatgaaa 1080
 tggcagacaa aggatttcc aatagttggg gagccttcc agaagcatca aagtttggat 1140
 ttgggctctc ttttggta gggatgttct aattctaaac ctgtaaatgc agcaggaaga 1200
 tatttaatt caaagggtgcc aataacacgg accaaaatcaa ctcctttga attgatacag 1260
 cagagagaaa ccaaggaggt ggacagcaag gaaaactttt cttatttggat atctcaacca 1320
 catgattctt gttttgtaga gatgcaggct caaaaagttaa tgcatgttcc ttccagcagaa 1380
 ctgaattatt cactgccata tgactctaaa caccaaaatac gtaatgcctc taatgtaaag 1440
 caccatgact ctagtgcctc tgggttatat tcttacatac ctttagtggaa aatcccttat 1500
 ttttcatcat ggcctccaag tggtaccagt tctaagatgt ctcttgat acctgagaag 1560
 cgagatggca ctgttttcc ttcttctctg ttgccaacat cctctacatc cctttctct 1620
 tattacaatt cacatgattc tttatcactg aattctccaa ccaatatttc ctcactattt 1680
 aaccaggagt cagctgtact agcaactgtt ccccgatag atgatgaaat ccccccctcca 1740
 ctccctgtac ggacacctga atcattttt gttgttggagg aagctggaga attctcacca 1800
 aatgttccca atcccttac ctcagctgtg aaggtaaaaaa ttggaaacatc actggaaatgg 1860
 ggtggAACAT ctgaacaaaaa gaaatttggat gactctgtga tacttagacc aagcaagagt 1920
 gtaaaactcc gaagtcctaa atcagaacta catcaagatc gttcttctcc cccacctcc 1980
 ctccccagaaa gaactctaga gtccttctt cttgcccgt aagattgtat gcaggcccaa 2040
 tctatagaaa catattctac tagctatcct gacaccatgg aaaattcaac atcttcaaaa 2100
 cagacactga agactcctgg aaaaagtttc acaaggagta agagttgaa aattttgcga 2160

aacatgaaaa agagtatctg taattcttc ccaccaaaca agcctgcaga atctgttcag 2220
 tcaaataact ccagctcatt tctgaatttt ggtttgc当地 accgttttc aaaacccgaa 2280
 ggaccaagga atccaccacc aacttggaaat attaataaaa actccagatt tataataata 2340
 tgggctgcaa gtacacctgc aaataaaaact actagaatac tgctagttaa aataagtgt 2400
 ctatatgcat aatatcaat atgaagatata gctaatgtgt taatagctt taaaagaaaa 2460
 gcaaaatgcc aataagtgcc agtttgc当地 tttcatatca tttgc当地 gttgaaaact 2520
 gcaaaataaaa gtttgc当地 t 2541

<210> 59

<211> 2611

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7520192CB1

<400> 59

atatacgaag actttgtgtg gacagtaatg acctcacgtt tccgattgcc tgctggcaga 60
 acctacaatg tacgagcatc agagttggcc cgagacagac agcatactga agtgggttgc 120
 aacatccttc ttctggataa cactgtacaa gccttcaaag tcaataaaaca tgatcagggg 180
 caagtcttgc tggatgtcgt cttcaagcat ctagatttga ctgagcaggaa ctattttgg 240
 ttacagttgg ctgatgattc cacagataac ccaaggtggc tggatccaaa caaaccata 300
 aggaagcagc taaagagagg atctccttac agttgaact ttagagtcaa atttttgt 360
 agtgacccca acaagttaca agaagaatata acaagaggct tatctcctgc agaagcagaa 420
 ttaatttacc taaacacagc acgtacccatc gaactctatc gagttgaatt ccactatgca 480
 agggatcaga gtaacaatga aattatgatt ggagtgtatgt caggaggaat tctgatattat 540
 aagaacaggg tacgaatgaa taccttccca tgggtgaaga ttgtaaaaat ttcttttaag 600
 tgcaaacagt ttttattca acttagaaaa gaattgtatcc ccaagtaagc ccttggcactg 660
 gaaattaatg gattgggaag tagtaaggcag aaattcaata tctgatgaca ggttagaaac 720
 acaaagtctt ccatcacatc ctccaccggg aactcctaata catcgaaatt ctacattcac 780
 gcaggaagga acccggttac gaccatctt agttggtcat ttggtagacc atatggttca 840
 tactcccca agcgagggtt ttgtaaatca gagatctccg tcatcaacac aagctaatacg 900
 cattgttctg gaatcatcac catcacaaga gacccttggc gatgggaagc ctccagctt 960
 accacccaaa cagtcaaaga aaaacaggta gaaccaaatt cattattcac attcgcaaca 1020
 agatctagaa agtcatatata atgaaacattt tgatatttcca tcttctctg aaaaacccac 1080
 tcctaatgggtt ggtattccac atgataatct tgccttaatc agaatgaaac ctgtatggaaa 1140
 tgggagggtt ggattcaatg taaagggagg atatgtatcg aagatgcctg tgattgtgtc 1200
 tcgagtagca ccaggaacac ctgctgaccc ctgtgtccct agactgaatg aaggggacca 1260
 agttgtactt atcaatggtc gggacatgtc agaacacact catgatcagg ttgtgtctt 1320
 tattaaagct agttgtgaga gacattctgg ggaactcatg cttctagttc gacctaatacg 1380
 tttatatgt ttagtggaaag aaaagctaga aaatgaggca gatttccatg atattcttgc 1440
 gaaagccca ctagatagtg tgc当地tggaa tgaccattcc ctgcccgggat caatgatcca 1500
 gctagctgag gggcttatac ctggaaacagt cctgacacag tttgatcaac tttatcgaaa 1560
 aaaaccttggaa atgacaatgt cctgtccaa attacctcag aatatttcca aaaaatagata 1620
 cagagatatt tcgccttatac atgccacacg ggtcatttta aaaggttaatg aagactacat 1680
 caatgc当地ac tatataata tggaaattcc ttcttccagc attataaaatc agtacattgc 1740
 ttgtcaaggg ccattaccac acacttgc当地 agatttttgg cagatgactt gggaaacaagg 1800
 ctccctctatg gttgtatgt tgaccgcaca agttgaacgt ggc当地gatc aatgtccacca 1860
 atattggccaa gaacccacag gcagttcatc ttatggatgc taccatgatc cctgcccactc 1920
 tgaagaaggg aacactgcct atatcttgc当地 gaagatgacc ctatthaacc aagagaaaaaa 1980
 tggaaatgc当地 ccactcactc agatccagta catgc当地tgg cctgaccatg gagtccctgc 2040
 tgattcgactt gactttcttag attttggttt tcatgtacga aacaagaggg ctggcaaggg 2100
 agaacccttgc当地 gttgtccatt gcagttctgg aatcgaaaga actggggttc ttattactat 2160
 gggaaacagcc atgtgtctca ttgaatgaa tcagccaggat tatccactatg atattgtaa 2220
 aacaatgaga gatcagc当地 cc当地tgc当地tggatgat ccaaaccatc agtcaatatac gatttgc当地 2280
 tggaaatgtt atgaaagaaagg ctttggtaaa cccttaacaa catcaacaaa 2340
 taaataagaa agcaaaaaga tctgggatata gtttggaaa actgcttcc cttatgttca 2400
 ctgtgcccata atgctgctcg caggaaatgg cattttacaa aaaaaatgaa agaactcaaa 2460
 aaaaacttgc当地 aaactcactc actgttgc当地 tttatgtttt aaaaaatgtc actcttccaa 2520
 aatctataac tcatgtatggaaatgtt tcatgtatggaa cgattccatc acactgc当地 2580
 gtaataacgt gcaggctcgc acgtgatgtt c 2611

<210> 60

<211> 5216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7520428CB1

<400> 60
tactccagtg tgagggcaaa aacttgagta gccaggagaa ttagtggaaacg gaggcgagag 60
agactggag caccatgtct gcggattcaa atctctaccc tttgcccggagg agctgaagta 120
aaccagcaca ttttttccacc cacatctgct ccagccctct tcctcactaa agtcccattt 180
agtgcgtatt gtgccttggc tacttctcctt cttggccattt tcctgaacctt acggagccac 240
agcagtccctg gcactccctt ttccagccgc ccactgcgtt ggagttgtcg gacaagtaac 300
cgcaagagct tgattgtgac ctctagcaca tcacctacac taccacggcc acactcacca 360
ctccatggcc acacaggtaa cagtccttgc gacagcccc ggaatttctc tccaaatgca 420
cctgctcact ttcttttgc tcctgcccgtt aggactgatg ggcggcgctg gtctttggcc 480
tctttgcctt ctcaggata tggaactaac actcctagctt ccactgtctc atcatcatgc 540
tcctcacagg aaaagctgca tcagttgcctt ttccagccctt cagctgatga gctgcacttt 600
ttgacgaagc atttcagcac agagagcgta ccagatgagg aaggacggca gtccccagcc 660
atgcggccctt gtcggccggag ctcctagtc ggcacatccc cagttatcctt tgacagtggaa 720
ataataatga tgaatcatgt ttacaaagaa agattcccaa aggccaccgc acaaattggaa 780
gagcgacttag cagagttttt tccttccaaac actccagaca gcgtgctgccc tttggccat 840
ggagccctga gctttattca tcatacggtt attagatgg cccagactgtt cttggataaa 900
tctcggagtg gcttcattac atcacaataat ttctacgaa ttcagagaa tttggagaaa 960
cttttacaag atgctcatgaa ggcgtcagag agctcagaag tggctttgtt gatgcagctg 1020
gtgaaaaaagc ttagtgcattt cattggccgc ccagcacatc tccttggaaatg cttggagttt 1080
gaccctgaaag agttctacca ctttttagaa gcaagtcgtt gccacgccaa agaggacaa 1140
gggatttaaat gtgacattcc cggctacatc gttagccagc tggccctcac cgggatcccc 1200
ctagaagaaaa tgcccggatg gaggcagctgt gacagtcttgc acactccaga gacagatgt 1260
tctatttgggg gccatggggc atctctgca tcataaaaga caccctctga agaggacttc 1320
gagaccatttta agtctcatcag caatggccgc tatggggctt tatttctgtt gcccggccaaag 1380
tccaccggc agcgctttgc catgaagaag atcaacaagc agaacctgtt cctacggaaac 1440
cagatccagc aggcccttcgtt ggagcgttgc atactgactt tcgttgcgaa cccctttgtt 1500
gtcagcatgt tctgctcctt tgataccatc cggccacttgc gcatgggtat ggagttacgtt 1560
gaagggggggag actgtgcccac tctgtgttgc aatattgggg ccctgcctgtt ggacatgggt 1620
cgtctataact ttgcggaaac tttgtgttgc ctggagttact tacacaacta tggcatcggt 1680
caccgtgacc tcaaggctgaa caacccctta attacatcca tggggccatc caagctcacg 1740
gactttggac tggccaaaat gggccctcatg agtctgacaa cgaacttgc tgagggtcat 1800
attgaaaaagg atgccccgggaa attccctggac aagcaggatg tggggacccc agaatacatt 1860
gcgcctgagg ttagtcttcgc ccaggcttat gggaaagccag tggactgggtt gcccggcc 1920
attatctgtt atgagtttcgtt ggtggctgc tccctttttt ttggagatac tccggaggag 1980
ctctttgggc agtgcgttgc ttagtgcattt gttgtggctt aggtgtatgaa ggcactgccc 2040
ccagacgccc agacccatc cttccaaactg ctccaccaga accctctggaa gagacttggc 2100
acaggcagtg cctatggatg gaagcagcac ccattctta ctggctctgaa ctggacaggg 2160
cttctccggcc agaaggctgaa atttatttcgtt cagttggagt cagaggatga tactagctat 2220
tttgacacccc gtcagagttt ataccaccac atggacttcgg aggatgagga agaagtgggt 2280
gaggatggctt gcttgcgttgc ccgccttcgtt tcttcctgtt ctccaaagggtt caacaagggt 2340
tacagcagca tggagccggctt ctcactgtctt gaggagccgc ggacaccacc cccgaccaag 2400
cgccggctgaa gtggggggatgg gggggccat tcaagatggcc tggccgggtt caaaggccga 2460
gaccggggctt ggggtttttt ccctccctgtt atattacggaa agccgtgtc ggtgtctgag 2520
tcgttcccaaa cagagggtgtt ctcacccctt ccaatgcacat tggcgcggcc ctgcctcggc 2580
ctcctggatg ccctctgggtt cccggggggc cctggggggcc ccaagcagcac cctcaggagg 2640
caaccacagg aggttatatg gtcctgtaca ccccccattt ggggggggtt atctggggctt 2700
gtcactgaac actcaggggaa gcagccggca aagctggatg aggaagctgtt tggccggagc 2760
agtgggttcca gttccagctat ggagacccca ggcctgtggaa cctcacagctt ggtgtgggg 2820
gccacagcca agccatcag tgacctggctt gtgcgttaggg cccggccaccc gctgcctctt 2880
ggggactcaa cagagaagccg cactgtctgc cctgtcaaca aagtgtatcaa gtccggctca 2940
gccacagccc ttcacttcctt cattcccttcgtt gaaacaccaca cctgctcccc gttggccagc 3000
cccatgtccc cacattctca gtcgttccaa cccatcatccc gggactcttc tccaaagcagg 3060
gacttcttgc cagcccttggc cagcatgagg cctcccatca tcataccaccc gctgcctctt 3120
aagtatggct tcaaccctgcg ggccatttcgc gtctacatgg gtactccgaa tgcgttacacc 3180
gtgcaccata tgggtgtggca cgtggggggat ggaggtccgg ccaagttggc agggcttcgt 3240
caagggtgacc tcatcaccatc tttgtcaatgggg gaaacctgtgc atggcttgcgtt gcaacacggag 3300

gtgggggagc tgatcctgaa gagtgaaac aagggtggcca tttcaacaac tcccctggag 3360
 aacacatcca ttaaagtggg gccagctcg aagggcagct acaaggccaa gatggcccg 3420
 aggagcaaga ggagccgcgg caaggatggg caagaaagca gaaaaaggag ctcccgttc 3480
 cgaagatca ccaagcaagc atcccgttc cacaccagcc gcagccttc tccccttaac 3540
 cgctccttgc catcagggga gagtgggca ggctctccca cacacagcc cagccttcc 3600
 ccccgatctc ccactcaagg ctaccgggtg acccccgtg ctgtcattc agtgggaggg 3660
 aattcatcac agagcagctc ccccagctcc agcgtgccc gttcccagc cgctctggg 3720
 cacacacggc ccagctccct ccacgggtcg gcacccaagc tccaacgcca gtaccgctct 3780
 ccacggcgca agtcagcagg cagcatccca ctgtcaccac tggcccacac ccctctccc 3840
 ccaccccaa cagttcacc tcagcggtcc ccatcgcccc tgcgtggca ttagccccag 3900
 gcccttccca caaagcttca cttgtcacct cccctggca agtgcggagc caccctgttcc accactactc aagagggtgc 3960
 gcagacttgc cgcctctga gaagaagcta gccacttctc cccactctg aactaaagaa ggaactgccc cccagggaaag 4020
 ggagccagga gtgtcgttgc tggcaagggg gcccgtccag cagaagcaag aagccattcg tgaggtggac tcctcagagg gagaacagcc agggtcaca ggagctgagc ttggcacctc 4080
 gtggccctta aaggagcagg agagagtgg gaagaggatc aggagccttgc ccccaatgtt ccaagccat tgaggaggct 4140
 atggaaagtcc ccaagttgc ccacaggagg ctcggagcc gccagcttgc cctcagcggg ccccaaccta ggtcagtctg 4200
 cctgaagggtt gctggaaggc ccagcaccc cacacccagg agcacttcgg gactcaccctt caccagcagt tgctcttc ctcagcatgt ggtcctggaa atcccttatt gagggcccg 4260
 aaggcaacca tggcaggtgg gctagccaa ctccaggatt cagcctaaga acctgtctcc cagggagcag gggaaagacac 4320
 ctggccaccatcttata gatcccagc cagggctggc caagcagtga aagaggatcc agccctgagc atcacccaaag 4380
 agaaggcagg acgttccatg ccgaggctgc cccctcaccc aggaggggca aagaaccagg gggccatcaa aagcatcggtt 4440
 gagcttttaa agcaaacata gcaagttttt gccatttctt gcactcagac ctgtga 4500

 <210> 61
 <211> 2554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7522586CB1

<400> 61
 ctgtttatg cgtcatcatc cgcgcagac acaggaagtgc cgcacacagag cgagccctg 60
 tcgccttgc ttctggcca gaggtcggtt attatatcat cattaggcgt caacacagga 120
 agtgaggata cttctggcgaa ggcgggttg ctgttcttc tcaggctcag ggaccggccg 180
 cggccccgtt ggggttttta actcaaatgg gtgtatgaaaa ggactctgg aaagtgaaaa 240
 ctttagatga aattcttcag gaaaagaaac gaaggaagga acaagaggag aaagcagaga 300
 taaaacgctt aaaaaattct gatgaccggg attccaagcg ggattccctt gaggaggggg 360
 agctgagaga tcactgcattt gagatcacaa taaggaactc cccgtataga agagaagact 420
 caatggaaaga cagaggagaa gaagatgatt ctggccat caaaccaccc cagcaaatgt 480
 ctggaaaga aaaagttcat cacagaaaag atgaaaagag aaaagaaaaa tggaccgctt 540
 ggacgagttt gaaaggaaagc gggagcggg ggcgaagatg cgggagcagc agaaggagca 600
 gcgggagcag aaggagcgcg agcggcggggc ggaggagcgg cgcaaggagc gggaggcccg 660
 cagggaaatgt tctgcacatc accgaacgtt gagagaggac tacagcgaca aagtgaaagc 720
 cagccactgg agtcgcagcc cgcctcgccc ggcgcgggag cggttcgagt tggagacgg 780
 ccggaaggcca gtaaaagaag agaaaatggc agaaaaggagc ctgctgtccg acttacagga 840
 catcagcgac agcgagagga agaccagctc ggcggagtcc tcgtcagcgg aatcaggctc 900
 agttcttagt gaaagaaggg agggaggagg agaggaggag gaggaaaggga gcaccagtga 960
 agaatcagag gaggaggagg aggaagaggaa agaggaggag gaggagaccc gcagcaactc 1020
 tgaggaggca tcagagcagt ctggccaaaga agtaagttag gaaagaaatga gtgaagatga 1080
 agaacgagaa aatgaaaacc acctcttggt tgttccagag tcacggttcg accgagattc 1140
 cggggagagt gaagaagcag aggaagaagt gggtagggaa acggccgcaga gcagcgcct 1200
 gacagagggc gactatgtgc ccgactcccc tgcctgtcg cccatcgagc tcaaggcagga 1260

gctgcccaga tacctgcccgg ccctgcaggg ctggccggagc gtcgaggagt tccagtgcct 1320
 gaacaggatc gaggagggca cctatggagt ggtctacaga gcaaaaagaca agaaaacaga 1380
 tgaatttgc gctctaaagc ggctgaagat ggagaaggag aaggagggct tcccgatcac 1440
 gtcgctgagg gagatcaaca ccatcctcaa ggcccagcat cccaacatcg tcaccgttag 1500
 agagatttgc gtgggcagca acatggacaa gatctacatc gtatgaact atgtggagca 1560
 cgacctaag agcctgatgg agaccatgaa acagcccttc ctgcccagggg aggtgaagac 1620
 cctgatgatc cagctgctgc gtggggtcaa acacctgcac gacaactgga tcctgcacccg 1680
 tgacctaag acgtccaaacc tgctgctgag ccacgctggc atcctaagg tgggtgactt 1740
 cgggctggcg cgggagatcg gatccccctc gaaggctac accccggctcg tggtgaccct 1800
 gtggtaccgc gccccagagc tgctgcttgg tgccaaggaa tactccacgg ccgtggacat 1860
 gtggtcagtg ggttgcattc tcggggagct gctgactcag aaggctctgt tccccggaa 1920
 gtcagaaaatc gatcagatca acaaggtgtt caaggatctg gggaccctta gtgagaaaaat 1980
 ctggcccgcc tacagcgagc tcccagcagt caagaagatg accttcagcg agcaccctta 2040
 caacaacccctc cgcaagcgct tcggggctct gctctcagac cagggttcg acctcatgaa 2100
 caagtcttc accttctcc cggggaggag gtcagcgct gaggacggcc tcaagcatgaa 2160
 gtatcccgcc gagacccccc tccccatcg cccctccatg ttccccacgt ggcccggccaa 2220
 gagcgggcaag cagcgctgtga agcggggcac cagcccgagg cccctgagg gaggcctggg 2280
 ctacagccag ctgggtgacg acgacctgaa ggagacgggc ttccaccta ccaccacgaa 2340
 ccaggggggcc, tctggcgccg gccccggctc cagccctcaag ttctgaaggt cagagtggac 2400
 cccgtcatgg ggagaactca gcccggacca caggcgctggc tactgcggct ggagctgcga 2460
 tgagactcgg aactcctcgt cttaacttgc gctccatgtt ttgttttgcg attttgggtt 2520
 gtaaatttgc agaattaaat cattttccctt gttg 2554

<210> 62

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7524017CB1

<400> 62

agggccctgt ctttctgtcg ggccgcgctc agccgtgccc tccgcccctc aggttctttt 60
 tctaattcca aataaaacttgc caagaggact atgaaagatt atgatgaact tctcaaataat 120
 tatgaatttac atgaaactat tggacagggt ggctttgcata aggtcaact tgcctgccc 180
 atccctactg gagagatggt agctataaaa atcatggata aaaacacact aggttactgc 240
 cctggaggag agctgttgcataatatt tccaggatc gcctgtcaga agaggagacc 300
 cgggttgc tccgtcagat agtacgtctgt gttgttatg tgcacagcca gggctatgct 360
 cacaggaccc tcaagccaga aaatttgcgt ttgtatgaat atcataattt aaagctgatt 420
 gactttggtc tctgtgcataa acccaagggt aacaaggatt accatctaca gacatgctgt 480
 gggagtctgg cttatgcagc acctgaggtt atacaaggca aatcatatct tggatcagag 540
 gcagatgtttt ggagcatggg catactgttata tttttttt tttttttt tttttttt 600
 gatgtatgata atgtaatggc ttatacaag aagattatga gaggaaaata tttttttt 660
 aagtggctct cttccaggatc cattctgtt cttcaacaaa tttttttt tttttttt 720
 aaacggattt ctatgaaaaa tctattgaac catccctggc tcatgcacaa ttacaactat 780
 cctgttgcgtt ggcaaaagccaa gaatccctttt attcacctcg atgatgattt cgtacacagaa 840
 ctttctgtac atcacagaaa caacaggccaa acaatggagg atttatcc actgtggcag 900
 tatgtatcacc tcacggctac ctatcttcgt cttctagccaa agaaggctcg gggaaaacca 960
 gttcggtttaa ggctttcttc tttctcctgt ggacaaggccaa gtgttacccattt attcaca 1020
 atcaagtcaaa ataaattggag tttttttt tttttttt tttttttt tttttttt 1080
 ggattaatag actatgattt gttgtatcaat gttttttt tttttttt tttttttt 1140
 acatcacatgtt tttttttt tttttttt tttttttt tttttttt tttttttt 1200
 ccaggcccttat gttttttt tttttttt tttttttt tttttttt tttttttt 1260
 aagtctgtgtt tttttttt tttttttt tttttttt tttttttt tttttttt 1320
 aagaaccaggc ataaaggatcaat aataactcaat acggccaaatc gtttacactac accctcaaaa 1380
 gttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 1440
 gacaaggatggat tttttttt tttttttt tttttttt tttttttt tttttttt 1500
 cttcaaccaatc tttttttt tttttttt tttttttt tttttttt tttttttt 1560
 gttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 1620
 gttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 1680
 aatccagatc aactgttgcataa tttttttt tttttttt tttttttt tttttttt 1740
 gtacaaaagg gtttataactt gttttttt tttttttt tttttttt tttttttt 1800
 caatttgcataa tttttttt tttttttt tttttttt tttttttt tttttttt 1860

<210> 63
<211> 1129
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7525773CB1

```

<400> 63
taggattcccc aggagccatg ttgtcagaag tcctactggg gtctgctccg gggaaagtca 60
tccttcatgg agaacatgcc gtggtacatg gcaaggtagc actggctgta tccttgaact 120
tgagaacatt cctccggctt caacccccaca gcaatggaa agtggacctc agcttaccca 180
acattggtat caagcgggccc tggatgtgg ccaggcttca gtcaactggac acaagcttc 240
tggagcaagg ttagtgcaca acacccaccc cagagcaagt ggagaagcta aaggaggttg 300
caggcttgcc tgacgactgt gctgtcaccg agccctggc tggctggcc tttcttact 360
tatacctgtc catctgccgg aagcagaggt ggaccaagga ggattttggag ctaattaaca 420
agtggccctt ccaaggggag agaatgattc acgggaaccc ctccggagtg gacaatgctg 480
acagcacctg gggaggagcc ctccgatacc atcaaggaa gatttcatcc ttaaaagaggt 540
cgccagctct ccagatccctg ctgaccaacg ccaaagtccc tcgcaatacc agggcccttg 600
tggctggctg cagaaacagg ctgctcaagt tcccagagat cgtggccccc ctcctgaccc 660
caatagatgc catctccctg gagtgtgagc gcgtgtctgg agagatgggg gaagccccag 720
ccccggagca gtacctcggt ctggaaagagc tcattgcacat gaaccagcac catctgaatg 780
ccctcggcgt ggcccacgccc tctctggacc agctctgcca ggtgaccagg gcccgggac 840
ttcacagcaa gctgactggc gcaggcggtg gtggctgtgg catcacactc ctcagccac 900
gtatccccggg ggctggagc agccagaagt ggaggccacg aagcaggccc tgaccactg 960
tggcttgac tgcttgaaa ccagcatcggt tgccccccggc gtctccatcc actcagccac 1020
ctccctggac agccgagtcc agcaagccct ggtatggcctc tgagaggagc ccacgacact 1080
gcagccccac ccagatgccc ctttctggat tattctgggg gctccagta 1129

```

<210> 64
<211> 687
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7525861CB1

<210> 65
<211> 3912
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc feature

<223> Incyte ID No: 2509577CB1

aaagaccaag atgccatggg gcctgcagga cttcttctg ggggtcctgt gctggaggat 3720
atgacagctg cggtaacttga gggcttcatt gccagaacac attatataca ggatgtcaga 3780
gctaccagtg tgctgctggg agaaaaatgct gcaaaaattca tctttggag ggtgggggaa 3840
aaacccaaaaa acaacaacaa aaaaactctc ttacagaatt ttctttaaca taaaaaaaa 3900
cttgtcatat tt 3912

<210> 66
<211> 3229
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7505222CB1

ataaaatgctc	atttactgta	agggtttct	agtaatctca	aggatttatt	aatttttctt	2940
tcaattttagg	aagtagaact	tttgaatata	gccattaata	tttttacttt	aaagtttcta	3000
ttaagaatc	ttaggccggg	cagtctcatc	actttgggag	gccaaggcag	gcagatcatg	3060
agtcaggag	ttgagaccag	tccaaccaac	atgtgaaac	cccgctctca	ctaaaaatac	3120
aaaattagct	gggcatggt	gtgcatgcct	gtaatcccag	ttacttggga	ggctgaggca	3180
ggagaatcac	ctgaacccag	gagatggaag	ttgcaagtga	gccgagatg		3229

<210> 67
<211> 2100
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7524408CB1

<400> 67

tagagcatttgc	ccttgggttgc	gacccttcag	tatggggagg	attggcatct	cctgtctttt	60
tcctgtttct	tggcatttta	gcataatctcc	agttaggggt	cctcgaattt	tgaataccaa	120
tttacgccaa	attatggtca	ttagtgcct	ggctgctgt	gtttcacattt	tatatttttc	180
tgttgcata	atccgaaata	agtatggcg	actaaccaga	gacaagaat	ttcaaaggta	240
cctggcacga	gttaccgaca	ttgaagctac	agacaccaat	aaccccaatg	tgaactatgg	300
gatcggttg	gactgtggta	gcagtggtc	tcgagtattt	gtttactgct	ggccaaggca	360
taatggcaat	ccacatgatc	tggtggat	caggcaat	agggataaaa	acccaaagcc	420
agtggtcatg	aagataaaaac	cgggcattt	agaatttgc	acctctccag	agaaaagtcag	480
tgattacatt	tctccactt	tgaactttgc	tgcagagcat	gtgccacggg	caaaacacaa	540
agagacaccc	ctctacattt	tctgcacggc	tggaaatgaga	atcctcccc	aaagccagca	600
gaaagctatt	ctggaaagacc	ttctgaccga	tatccccgt	cactttgact	ttctgtttt	660
tgactctcat	gcagaagtaa	tttctggaa	acaagaaggt	gtgtatgctt	ggatttggcat	720
taattttgtc	cttggacgat	ttgagcatat	tgaagatgat	gatgagccg	ttgttggaaagt	780
taacattcct	ggaagtgtaa	gcagcgaagc	cattgtccgt	aaaaggacag	cgggcattt	840
cgacatgggc	ggcggttga	ctcagatagc	gtacgaagtc	cccaaactg	caagctttgc	900
gtcctcacag	caggaagaag	tagctaaaaa	cttggtagct	gaatttaact	tgggatgtga	960
tgttccacaa	actggcattt	tgttatcgat	ctatgtggcc	acgtttttgc	ggtttgggtgg	1020
caatgtgt	cgacagatg	acgaagacag	aatatttgc	aacaccattt	aaaagaacag	1080
gctcctgggt	aaacagactg	gtctgactcc	tgatatggcg	tacttggacc	ccctgcctacc	1140
ccttagacatt	aaagatgaaa	ttccagaaaa	ttggacaaaacc	ataataccat	gagggactgg	1200
agactttgac	ctgtgtcgag	agactatcca	gcctttcatg	aataaaacaa	acgagaccca	1260
gacttccctc	aatgggtct	accagccccc	aatttacttc	cagaacatgt	aattctatgg	1320
cttctccgaa	ttctactact	gcaccggaga	ttgtttagca	atggggggag	actacaatgc	1380
tgctaaattt	actaaagctg	caaaggat	tttgcaaca	aagtggcca	ttttgcggga	1440
acgctttgac	cgaggactgt	acgcctctca	tgctgacctc	cacaggctt	agtgaactgc	1500
tccatgttgc	gggaccagg	atgtgaagca	agtacatcaa	ccttgaaacg	cgcgcagtt	1560
gttggggaga	gccggcctga	ggaagcccc	gcccccaaggc	tgcccacaga	gggaaggatt	1620
gtgtgtgtgt	gtgtgtgtgt	gccatcttga	cagagtgt	cagtctgact	tgcccttgc	1680
cttgcgtt	gtaggtatca	gtgcttcaa	tcggcctgg	tgtttgaggt	gtttcatagg	1740
ggctttcg	ttcctgtcaa	ctataaaaac	ttaaagactg	ccttgcaagt	ttacgacaag	1800
gaggttcagt	ggacccttgg	agccatccctc	tacaggaccc	gtttctacc	attaagagac	1860
atccagcagg	aggcctccg	agccagtca	acccactggc	ggggcggtt	cttgcatac	1920
aaccactacc	tgttctctgg	ctgcttcctg	gtggtgctgc	tggccatct	gctgtacctg	1980
ctgcggctgc	ggcgcatcca	caggcgcact	ccccggagca	gctcggccgc	cgcctctgg	2040
atggaggagg	gcctccccgc	ccagaatgcc	ccggggaccc	tgtgatccag	ctcacagacta	2100

<210> 68
<211> 4213
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526163CB1

<400> 68
cccgccat ggacgagtcg agcctcctgc ggccggcgg gctccagaag gagctgagcc 60

tgccacgccc aggacgtggc tgccgcagcg ggaaccgcaa gagcttggtg gtaggaacgc 120
 cctcccccac cctctcccg cccctgtcgc cattgtcggt cccaaacggca ggcagcagcc 180
 cttggatacg tcctcgaaat ttctcggtcg cctctgcctt aaatttcccc tttggccgga 240
 gggcagacgg cagaagatgg tccctcgctt ctctccatc ttccggctat ggaaccaaca 300
 caccaggctc caccctctcg tcaagctcat cttcccgaaa acgtctccac cagttccct 360
 tccagccgac gccggacgag ctgcacttcc tgtccaagca cttccgcagc tcagagaatg 420
 tgcttgatga ggaaggccggc cggtcacccc gcctccgacc cgcgtctcgc agtctcagcc 480
 cggccgtgc aacggggacc ttgcacaatg agattgtcat gatgaatcac gtgtacccgg 540
 agaggttccc caaggccaca gcacagatgg aggccgtct gcaggagttc ctgacggcct 600
 acgcgcccgg cgcccccgtg ggcgtggctg atggcgtctt gggcttcata caccaccaga 660
 tcgtcgagct gggccgagac tgcttgccca agtctggcga gaaacctcgtc acctcccgt 720
 acttcctaga gatgcaggag aagctggagc ggcttctgca ggtatgccc gggcggtcgg 780
 acagtgagga ggtcaacctc atcgccacgc ttgtccggaa actgctgatc atcatctcac 840
 gcccagctcg gctgtggag tgtctggagt ttgaccctga ggaattttac cacctgctgg 900
 aggccgctga gggccatgcg cgggaggggc aaggcattaa gactgacccctt ccacagtaca 960
 tcattggcga gctggccctg gccaaggacc cccctggagga gatgggtccca ctgagtccacc 1020
 tcgaagaaga acagccccca gcacctgagt cccccagagag cccgcgcctg gtcggccagt 1080
 cacggagggaa gccatgcgaa agcgaattt agaccatcaa actcattagc aacggagcct 1140
 atggggccgt ctacettggc cggcacccgt acacacggc ggcgttggcc atcaagaaga 1200
 tcaacaaaaca gaacttgatc ctgcgttaacc aggtccagca ggtctttgtg gggcggtcgg 1260
 ttctcacctt tgccgagaac ccctttgtgg tcagcatgtt ctgcgttccctt gagacccggc 1320
 gcacccatag tatggcgtatg gaatacgtgg aaggccggcga ctgcgcac ggcgttggcc 1380
 acatgggccc gctgcccgtg gacatggccc gcctgtactt cgccgagacg gtgttggcgc 1440
 tggagtaccc gcataactat ggcacatcgac accgtgaccc caaaccagac aatctgctca 1500
 tcacctcgct tggccacatc aagctcacgg acttcggccct gtcacagatc ggcctcatga 1560
 gcatggccac caacccctat gaggggccaca tcgagaagga cggccgagag ttcatcgaca 1620
 agcaggtgtt tgggacgccc gagtacatag ccccccgggt gatctccgc cagggtctatg 1680
 ggaagccagt ggactgtgtt gccatggccg tcgtccctcta ttagttctg gtgggctgcg 1740
 tgcctttctt tggagatacc cccgagggaa tcttcggtca ggtggtcage gatgagatca 1800
 tggggccaga gggagatgag gcccctccag cagacgcccac ggacccatc accagggttc 1860
 tccggcagag cccgctggac cgtctggca ctgttggcac ccacgaatgt aagcagcacc 1920
 cctttttcctt ggcctggac tgggcagggg ttctccgaca caaagccgag ttctgtcccc 1980
 agctcgaagc cgaggatgat accagctact ttgacacacgc ttcgaaacgt taccgcccattc 2040
 tgggctccga ggacgacgag accaatgatg aagaatcgac cacagagatc ccccaagttt 2100
 cctccctgctc ccacccgttcc agcaaggctt acagcagctc ttagttccctg ggcgtccagc 2160
 ccaactcctac ttgcgttgcg aggagctca gtgaagaccc gggaggggg tgggagcgc 2220
 gccaagtggg ctagggccgc cggctgatgt ctgacatccg gctgagggtcc tggacatctt 2280
 ctggatcctc ctgtcgttca tcttcgtccc agcccgagcc gggtccccc gcatctctcc 2340
 tgaataccat cagccctggc acaatgcca agtttgcctt ctcatcagag gatgaggggg 2400
 taggcccagg ccctgcaggc cccaaagggc cctgttccat tctaggggag cctgacccccc 2460
 caccagccgc cacccttgcg atgcccacgc cctcgagccct ttctgcgcac acagctgctc 2520
 tcagccacgc ccgcctacgg agcaatagca tcgcccggcc acactccaca ccaaggccctc 2580
 tggatgcccgg ccggggccgc cgccttgggg gcccaagaga cccagccctt gagaagtcca 2640
 gagccttctc cagccgtggc agtggtggcg gcaatggggg cgcgttggccc aagttagct 2700
 ctgtctctgc cctgtccctc atcatcacgg cagatgtatgg cagccggcgc cccctcatga 2760
 gcccccttcc cccgcgtct ctgtcctcga acccgctgcg cgttacatc agtctggca 2820
 gagacccgtc cccctgtgtt ggcagcctgc ggcctccat cttatccac agtctggca 2880
 agaagtacgg cttcagccctg cggccgatcc gctgttccat ggtgtatgc gacgtctaca 2940
 ctgtgcacca cgtcgcttgg agtgggagg acggaagccc cggccaggag gcgggcctgc 3000
 gggctggggg cctcatcacc cacatcaacg gggagtcaatg gctgggctg gtgcacatgg 3060
 acgtcggtgg gctgtcgctt aagagccgca acaagatatc cctgcggacc acagccctgg 3120
 agaacacaccc catcaagggtt gccccccccc ggaagaatgt ggcacggcgc cgcacggc 3180
 gcaggagcaa gaggagccgt cggccggaga cccaggatcg gcgaaatgc ctttcaaga 3240
 agatctccaa gcagacccctc gtgcgtcaca ccagccgcag cttctccctt ggactccacc 3300
 actcaactgttcc atccagtgtt agccctcccg gctcgccctt ccacaggctc tccccccagcc 3360
 ccaccactcc ctgcggaaacg ccagcccttgc atgtccctagc agataccact gcatccccac 3420
 ccagcgcatc cccgagctcc agcagccccg cctcccccagc tgctgttgc cacacccggc 3480
 ccagctccctt gcacggccctg gctgcacgc ttggggccacc cggcccaag actggccggc 3540
 gcaagtcacac cagccatc cccgcctcc cgtggccctg cccgcctc tccgcgcctt 3600
 caccggctc gcccctcgccc ctggccgggc accccggccg acctggccga tccccccggc 3660
 tgcggccgggg ccagtccatc gacaagctgg gcacagggga cgggctggat ggggaggccgg 3720
 ggcggccgcac tcgttggccca gaggccgagc tcgttggcat gcggccggctg caccctgtccg 3780
 agcggccgaga ctccctcaag aagcaggagg ccgtgcagga gtttagtttc gatgagccgc 3840
 aggaggaggc cacttggctg cccacccatc tgccacatgt cgccgtggag ggcgaggaag 3900

ccgtgccagt agctctcggg cccaccggaa gagactgatc ccctgccagg tctctccctg 3960
 gcatcaaagt tacgcgtttt cttgtgcaat gtttttccg taaagtcatg cctggatggg 4020
 gactgagcca ccagcctgac acccagaagg cgagaagcca tctcggtcct tgctggaagg 4080
 tggagacatc gcttgtgttc tgggtgcaat cagggggctg gatggggcaa gaatggggga 4140
 caagggtggc tttgtaaata gcagcaaatac cctgcaacta atttattact ttttctttt 4200
 tttttttttt ttt 4213

<210> 69
 <211> 5991
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526158CB1

<400> 69
 gtaccccgcc gcacagaggc ggcctctgcc tcggcatgaa gtcccgagg gacaagctgc 60
 acatccggc gctgaccctc gatctgtctc cgagcagcca gagcccgccct ctgctgggtc 120
 ccagcagccc ctgcagcccc ttagccctt cttggggctt gcacccttgg agctgcccga 180
 gcgggAACCG caagagcttg gtggtaggaa cgcctccccc gaccctctcc cggcccccgt 240
 cggcattgtc ggtcccaacg gcaggcagca gccccttggg tagtcctcgg aatttctcgg 300
 ctgcctctgc cctaaatttc cccttggcc ggagggcaga cggcagaaga tggtccctcg 360
 cgtctctccc atcttccggc tatggAACCA acacacccag ctccacccctc tcgtcaagct 420
 catcctctcg ggaacgtctc caccagcttc cttccagcc gacgcccggac gagctgcact 480
 tcctgtccaa gcacttccgc agctcagaga atgtgcttga ttaggaaggc ggccgggtcac 540
 cccgcctccg accccgcctc cgcagtcata gcccggggc tgcaacgggg accttcgaca 600
 atgagattgt catgatgaat catgtgtacc gggaggggtt ccccaaggcc acagcacaga 660
 tggagggccg tctgcaggag ttcctgacgg cctacgcgcc cggcggccgg ctggcgctgg 720
 ctgatggcgt cttgggttcc atccaccacc agatcgtcga gctggcccga gactgcttgg 780
 ccaagtctgg cgagaacctc gtcacccccc gctacttccct agagatgcag gagaagctgg 840
 agcggcttct gcaggatgcc catgagcgtt cggacagtga ggaggtcagg ttcatcgatcc 900
 agcttgcgg gaaactgctg atcatcatct cacggccagc tcggctgtc gagtgtctgg 960
 agtttgaccct tgaggaattt taccacctgc tggaggcggc tgaggccat ggcggggagg 1020
 gccaaggcat taagactgac cttccacagt acatcattgg gcaagctggc ctggccaagg 1080
 accccctgga ggagatggtg ccactgagtc acctcgaaga agaacagccc ccagcacctg 1140
 agtcccccaga gagccgcgcg ctggtcggcc agtcacggag gaagccatgc gaaagcgact 1200
 ttgagaccat caaacttcatc agcaacggag cctatggggc cgtctactc gtgcggcacc 1260
 gtgacacacag gcagcgcctt gccatcaaga agatcaacaa acagaacttgc atccctgcgt 1320
 accagatcca gcaggctttt gtggagcgtt acattctcac ctttgcggag aaccctttt 1380
 tggtcagcat gttctgttcc tttgagaccc ggcgccacat atgtatgtc atggaatacg 1440
 tgaaggcgg cgactgcgcg acgctccatc agaacatggg cccgcttccc gtggacatgg 1500
 cccgcctgtt cttccggag acgggttgg cgtggagata cttgcataac tatggcatcg 1560
 tgcaccgtt cctcaaaatc gacaatctgc tcatcaccc tttggccac atcaagctca 1620
 cggacttcgg cctgttcaag atccgcctca tgacatggc caccacccctc tatgagggcc 1680
 acatcgagaa ggacgcggc gagttcatcg acaagcagggt gtgtggacgc cccgagatca 1740
 tagccccggc ggtgtatctt cgcaggggct atggaaagcc agtggactgg tggccatgg 1800
 gcgtcgctt ctatgatttt ctgggggtt gcgtgcctt ctttggagat accccggagg 1860
 aactcttcgg tcaggtggc agcgatgaga tcatgtggcc agagggagat gaggcccttc 1920
 cagcagacgc ccaggacctc atcaccaggc tgctccggca gagccgcgtc gaccgtctgg 1980
 gcactgggtt caccacgaa gtgaaggcgc accccctttt cttggccctg gactggcag 2040
 ggcttctccg acacaaagcc gagttcgtc cccagctcga agccgaggat gataccagct 2100
 actttgacac acgttcggaa cgttaccggcc atctgggttc cgaggacgc gagaccaatg 2160
 atgaagaatc gtccacacag atcccccaatc tctctccctg cttccacccgg ttcatcgcaagg 2220
 tctacacacg ctctgatttc ctggccgtcc agcccactcc taccttcgt gaaaggagct 2280
 tcagtgaaga cggggaggag ggggtggggcgc gcaagcgaatgt ggtactatggc cgccggctga 2340
 gtgctgacat cggcgtgagg tcttggacat cctctggatc ctctgtcag tcatcttcgt 2400
 cccagccggc ggggggtccc agcccatctc tcttggatcatc catcggctc gacacaatgc 2460
 ccaagtttgc cttctcatca gaggatgagg gggtagggccc agggccctgca ggccccaaaga 2520
 ggcccgctt cattcttaggg gacccctgacc cccaccaggc gggccacccca gtgatgccc 2580
 accccctcgag ctttctgccc gacacagctg ctctcggatca cggccgccta cggagcaata 2640
 gcatcgccgc cggacactcc acaccaaggc ctctggatgc cggccggggc cgccgcctt 2700
 gggggcccaag agacccagcc ccttggatgtt ccagagcctc ctccaggggtt ggcagtgggt 2760
 gccggcgtt gggccggcgtt cccaaatcgtc tggccctgtcc ctcatcatca 2820

cggcagatga tggcagcggc ggccccctca tgagccccct ttccccgcgc tctctgtcct 2880
 cgaaccggtc gtcccggtac tcttcgcgca gcccggagaccc gtcccccgtg tggcagggcc 2940
 tgcggcccccc catcgttatc cacagctctg gcaagaagta cggcttcagc ctgcggggcga 3000
 tcccggtctca catgggtgat agcgacgtct acactgtgca ccacgtcgta tggagtgtgg 3060
 agacggaaag ccccgcccag gaggcgggccc tgccggctgg ggacctcata acccacatca 3120
 acggggagtc agtgcgtggg ctggtgacata tggacgtcgt ggagctgctg ctgaagagcgc 3180
 gcaacaagat atccctgcgg accacagccc tggagaacac ctccatcaag gtggggcccg 3240
 cccggaagaa tggcccaag ggccgcattgg cacgcaggag caagaggagc cgtcggcggg 3300
 agacccagga tcggcggaaag tcactttca agaagatctc caagcagacc tccgtgtgc 3360
 acaccagccg cagctctcc tccggactcc accactcact gtcatccagt gagagccccc 3420
 cccgctcgcc caccacacgc ctctccccca gcccacccac tccctgcccga agcccagccc 3480
 ctgtatgtccc agcagatacc actgcattcc caccacgcgc atcccccggc tccagcagcc 3540
 cccgcctcccc agctgtctg gcccacaccc gcccagctc cctgcacggc ctggctgcca 3600
 agtttgggccc accccggccc aagactggcc gcccgaagtc caccacgcgc atcccgccct 3660
 ccccgctggc ctggccggccc atctccggc cccacccccc ctcgcctctg cccctgcccc 3720
 ggcacccggcc cgcacctggc cgatccccgc ggctgcggcc gggccagtc gtcgacaaggc 3780
 tgggcacagg ggaggcggctg gatggggagg cggggcggcgc cactctgtgg ccagaggccg 3840
 agctctgtggt catggcgggg ctgcacctgt ccgcggccgc aagactctt aagaagcagg 3900
 aggccgtgca ggaggttagc ttgcgtgagc ccgcaggagga ggcacactggg ctgccccacct 3960
 cagtgccaca gatgcggctg gaggcggagg aaggcgtgcc agtagcttc gggcccccaccc 4020
 gaagagactg atccctgccc aggtctctcc ctggcatcaa agttacgcgt ttctttgtgc 4080
 aatgtttttt ccgtaaagtc atgcctggat gggacttag gccaccgcct gacacccaga 4140
 aggcgagaag ccacatcggt cttgtctgga aggtggagac atcgctgtg ttctgggtgc 4200
 aatcaggggg ctggatgggg caagaatggg ggacaagggt ggctttgtaa atagcagcaa 4260
 atccctgcaa ctaattttt actttttttt tttttttttt ttttttttt tgagacagag 4320
 ttcactctg ttgccccggc tggagtgcag cggcgtgatc tcagctcact gcaacctccg 4380
 cctcccaagt tcaaggcatt gtcctgcctc agctcccaa gtggctggga ttacaggcgc 4440
 ccaccactat gcccagctaa tttttgtat ttttagtaca gacgggtt caccatgtt 4500
 gtcaggctgg tctgaactc ctgacactcat gattgcctg ctttgcctc ccaaagtgt 4560
 gggattacag gcgtgagcca ctggggccag cctaatttat tacttttat aagcgatagc 4620
 cgtactgagc cggccctgtg aggccggctgc caggtcttgc cccaggcacc tggactctg 4680
 ttgcaggcc ctggccctctg ggctgagaag gatgcactt ggacaagtca tctgtgttt 4740
 tttttccag tttttctgtt cttttaagt gttttgtgtt acctggcttc attccctcc 4800
 ccacaccttccat ccatttgagg ggtatggagtt gaagtcaccc ggtcacctgt accggccca 4860
 ttccggctaca acctggagtg tccgtaaaca attcctctca cccacaaaac aatgtaatcc 4920
 cagcgatgga ctggattctg aaggccactt cccacccatca tagctccat gcccaggcag 4980
 tgcctgtct atatataagat tctgccttca atcctgtctt cttcagcctg gagaagggat 5040
 atggggactg gagctttgtat ggtatgaatag gtgttccaccg gatctggca gagggggtcat 5100
 ccgcctccccca ggtggggact gataaaaggaa ggtacaggcc tcacctggaa ctgccaaggc 5160
 agcctccaga aatgcgtcgcc tgcgtcgcccc cacgcgtccag tatgcctgtc ctgcgggatt 5220
 acgtccagct acttcagaa acactcagtg tccctcccccc tcaggctctg ctttggcttg 5280
 gccttgcctca gtctaccctg gacaagatgc cgtgttttgc agggccagca gatgtttttt 5340
 ttggccgtga tgcgtctgaa acacctgtt ggggtccctt ccatatgtca gagcctctct 5400
 gggatgaagt tcaagccaga aaacccagtc gaggtcaag tttgaatttc agtttactg 5460
 tgcgtctgtt gaaaaatggc tttccactc tgcgtctcag tttccttgc tttacaagac 5520
 taatccctt gactgttttta taagcaccta ctgtgtgcctt agcgcttttta cgtggcttct 5580
 ccctcagcca gccttggagaa ggctggaggt ggtgtcatca cttccatttt acagacaaag 5640
 cagctgagac cccagcgagg ggcggagacc tgcctccacga tcacccagca ggagtctgg 5700
 cagaacggag catcagccag accctgttgc gggcgttgc atcaaggggat cttgaatgg 5760
 gggctctgggt tcagatacag ccgactccag ccccaagctca tccccatga tgctgtgtga 5820
 cccactgggc actctgtgtt gggagcttc cagacatcaa cagcccaactc tgctccctt 5880
 tctgagtccc ctgtccagca ctgccttagt ttggagggtt gaccaaggct gtgcattgatt 5940
 caccacccctcc ttccatccctg gagctggcag tgaataaaag cccgtattta c 5991

<210> 70
 <211> 669
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7519807CB1

<400> 70

gcctgctgga tttgtttgt a tttgttccca gccactgctc atgtaatgt a ctcccttaac 60
 caggaaatta a agcattctc ccggaataat cccaggaagc aatgcaccag ggtgacaacg 120
 ctaactggaa agaaaattat agaaaacatgg aaagatgcca gaattcatgt tttgttggaa 180
 gtagagccga gcagtggggg tggttgtgt tatgtcagg accttagctc ggaccagcaa 240
 gtggcgtt a ttaagccatg gttgctcta ggtgactcat attcttaatg ttgcataatgg 300
 agttgaaaat gctttctca gtgactttac atataagagc atttctatat tggatctgcc 360
 tggaaaccaac atccgtctt attttccaga atggttgaa tttattgt aagcaaaaag 420
 aaaagatgga gtggttctt gttcattgtaa tgcaggcggt tccaggcgctg ctgcaattgt 480
 aataggttcc ctgatgaatt ctgaacaaac ctcatttacc agtgctttt ctttggtaa 540
 aaatgcaaga cttccatat gtccaaattc tggcttcatg gaggcgttc gtacatatta 600
 agagggcaaa gaaagaata a gttgtgacag aatacaggag aacagttcat gagttgcatt 660
 gtacagac 669

<210> 71
 <211> 2453
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526180CB1

<400> 71
 actgtacaaa tgcttattt ctattcaata tttagaagac agttataaac aagatgcatt 60
 caatagcatg gtggcagatg aacatcgga aggaacatcc atgagcttcc atccacggaa 120
 cctcaccatg gatacgttg tgatcaaggg cctggcttcc cctcaagaca cggtcacaga 180
 tcagaggcca caccatccta gcagtggagc agtaccagct gggacagggt cttctgtga 240
 cacctgctgc atcaccaggc tgggtgaacg gacacaattt ccagaactca cagaatagaa 300
 gtatcagcac cgaaacctca caggaaaaat ggtaagttct aatgttctcc attaataatgt 360
 actctcagat taatctctgt catccatcgc ttctccaaga aatgacttt tagggtgatg 420
 tgccaggcgc catgttggag ggctgggtt agcggcttgg ggaggtgctc gctctgtcgg 480
 tcttgcctc tcgcacgctt ccccccggc ccttcgttcc cccccccgg tcgcctgcgt 540
 gccggagtgt gtgcgaggga gggggaggggc gtcggggggg tggggggagg cttccggc 600
 cccaagagac cgcggaggc aggccggaggc tgtgagggac tccggaaagc catggacgtc 660
 gagaggctcc aggaggcgct gaaagattt gagaagaggg ggaaaaagga agttgtcct 720
 gtcctggatc agttttttt tcatgttagcc aagactggag aaacaatgtat tcagttgtcc 780
 caatttaaag gctattttt tttcaaaactg gagaagatgt tggatgat tttcaacttca 840
 gtcctgagc caagagggtcc tcccaacccct aatgtcgaat atatccctt tttatgt 900
 aaggaaagaa tactgaaaat tttcaacttca aatgtcgaat tttatgttcc tcccttttac tttcagcga 960
 ctatgtgaat tttcaacttca aatgtcgaat tttatgttcc tttatgttcc tttatgttcc tttcagcga 1020
 ggagtagaaa agaatgtat gtttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1080
 tcccaatgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 1140
 gagaggtctt atataatgg gtttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1200
 ttgtcagccc ccatgacaac aatgggtt gtttgcgtt tttatgttcc tttatgttcc tttcagcga 1260
 ttgcagcaaa atgaggagaa aatcacagt gtttgcgtt tttatgttcc tttatgttcc tttcagcga 1320
 tcagttagcc ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 1380
 gaggtaaaaa gtttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 1440
 acttccagcg aaatttcttc agttatgtt gtttgcgtt tttatgttcc tttatgttcc tttcagcga 1500
 gataaaagaca aagatagccg ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1560
 gatgaagagg aagaagaaga gtttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1620
 aatcaagaaa aagaatctgt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1680
 aatcaaatgg aggaatctgt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1740
 agtggaaaacg aaggccctgt aagtagtagt ttttgcgtt tttatgttcc tttatgttcc tttcagcga 1800
 gtaggttcc aatccagttt aactggagag ttttgcgtt tttatgttcc tttatgttcc tttcagcga 1860
 gacgaagccca cagaagtcac ctttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 1920
 tagatcgat ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 1980
 aaatggaccct ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 2040
 tcctgaaaga gtttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 2100
 ttaccgctgt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 2160
 gatttttttt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 2220
 gaaaagttt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttatgttcc tttcagcga 2280
 tctctttctg atagctctgt ttttgcgtt tttatgttcc tttatgttcc tttatgttcc tttcagcga 2340
 gtgaattata gggtttcatg ctggtttcca gtttgcgtt tttatgttcc tttatgttcc tttcagcga 2400
 ctttaagtca tatatacata catattat atatataagg ggggggggg ggt 2453

<210> 72
<211> 4430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526185CB1

<400> 72
ccggctccag cggccagcgc gcgcgggccc aggccgccc gctccagccc agcagtagcg 60
gcagcagcgg cggcggcggc agtgcgcgcg aggcctgcg ccccccagcag ctcctccctg 120
gcgcgtgca tggagacgcg gcccgcacc cgccgctgag ccccccgcgc cggccggga 180
ccgcaggcggg ctgggggtggc ctcgggctcc ggccggccc gcccggcag ggctgcgcgc 240
ggcccgccggg ctcgcgcgc ccgcgcggat cgtgcggcc cggccgtccc gtcccaggaa 300
gtggccgtcc tgagcgcctt ggctcactcc cgggtgcagt cgggcctgccc cggcatgcag 360
aacctaaagg cagacccaga agagctttt aaaaaactag agaaaaattgg gaagggctcc 420
tttggagagg tttcaaaagg cattgacaat cggactcaga aagtggttgc cataaaagatc 480
attgatctgg aagaagctga agatgagata gaggacattc aacaagaaat cacagtctg 540
agtcaagtgtc acagtccata tgtaaccaaattatggat cctatctgaa ggataaaaaa 600
ttatggataa taatggataa tcttgggtga ggctccgcac tagatctatt agaacctggc 660
ccatttagatg aaacccagat cgctactata ttaagagaaa tactgaaagg actcgattat 720
ctccatcgag aaaaagaaaaat ccacagagac attaaaggca gacatctggt ccctgggcat 780
aacagctt gaacttgcaa gaggggaaacc accttattcc gagctgcacc ccatgaaagt 840
tttattcttc attccaaaga acaacccacc gacgttggaa gggaaactaca gtaaaccct 900
caaggagttt gtggggccct gtttgaataa ggagccgagc ttttagaccca ctgctaaggaa 960
gttattgaag cacaagtta tactacgaa tgcgaaagaaa acttctact tgaccggact 1020
catcgacagg tacaagagat ggaaggccga cagagccat gacgactcga gctccggag 1080
ttccgacgcgc gaaacagatg gccaaggctc cggggggcagt gattctgggg actggatctt 1140
cacaatccga gaaaaagatc ccaagaatct cgagaatggaa gcttccgcac catcgactt 1200
ggacagaaaat aagatgaaag acatccaaa gaggccttcc tctcagtgtt tatctcaaat 1260
tatttctcct ctgttgcag agttgaagga gaagagccag gcgtgcggag ggaacttggg 1320
gtccattgaa gagctgcgag gggccatcta cctagcggag gaggcgtgccc ctggcatctc 1380
cgacaccatg gtggcccgac tcgtgcagcg gctccagaga tactctctaa gtggtgagg 1440
aacttcatcc cactgaaatt ctttggcat ttggggttt gttttctt ttcccttct 1500
tcatcctcct cttttttaa aagtcaacga gagccttcgc tgactccacc gaagaggtgc 1560
gccactggga gccaccccg tgccaggcgc ccgtccaggaa acacacacag ttctcaactgt 1620
gctgcagcca gatgaagtct ctcagatggg tggggagggt cagctccccc cagcgatcat 1680
tttattttat ttattactt ttgttttaa tttaaccat agtgcacata ttccaggaaa 1740
gtgtcttaaa aaacaaaaac aaaccctgaa atgtatattt gggattatga taaggcaact 1800
aaagacatga aacctcaggt atcctgctt aagttgataa ctccctctgg gagctggaga 1860
atcgctctgg tggatgggtg tacagattt gatataatgt catttttacg gaaaccctt 1920
ccgcgtcat aaggaatcac tggtaaaaaa ctggccaaatg gcttctgttag ataacgtcag 1980
tggagtaaat attcgacagg ccataacttg agtctattgc cttgccttta ttacatgtac 2040
atttgaatt ctgtgaccag tgatttgggt ttatattttt atttgcaggg ttgtcattta 2100
ataattaatg cccctctctt acagaacact cctatttgc cctcaacaaa tgcaaatttt 2160
ccccgttgc cctacgcccc ttttggtaca cctagaggtt gatttccctt ttcatcgatg 2220
gtactatttc ttgtgtttt aaatttggaaac atatcttgc tcatgaagct taaaattata 2280
atttcaggat ttcctccatg aagcgctctc gtctgacatt tgtttggaaat cgtccactg 2340
ctggctgcgc ccagatgtac cgtcccttcc aatacgattt tctgttgcac cttgttagtgg 2400
attctgcata tcatcttcc cacaaaaaa tgcgtgaatg cttacacaaa taaaattttat 2460
aacacgtta ttttgcatac tccttggaaat gtgactcttc agaggacagg gcacccgtctg 2520
tgtatgtgtg gccgtgcgtg tgtaactcgat gctgtgtgtg tgcgtatgaga cactttggaa 2580
gactccaggaa agaagttcccc aggcctggag ctgcggatgt cccaggtcag cggccctggac 2640
tgcttgcgc cttgtctcacc gagatgatgc agttggaggt tgcgtatctg tgccattgt 2700
gtagcgggtt cggggggaccc taagatgtt tttgttctc tggaaaggggc cttatgttc 2760
taggcaggca gccagttgtgt ctgttttct tggtttgtg tggaccccttgc cttggcgagg 2820
gggaaaatct ctgggtttct ggagtggag ggttgcgtca gcaagctgttgc actggatcat 2880
gaagcattct ttatgtttt tggaaagctga tgattgacat ctcccgtggg tgcgttgc 2940
cttgcggagt taagacagga tttttggaaat caaggaagtt agtgggtgag cttggggatg 3000
tagctcagct atctgtgtt ctagtggccct ctaagctata gggaggggac agacccctga 3060
gctacagatg cttgtgtgtt ttattgtgtc ggtttgcgt tgcgtatctg ttttaagct 3120
ctaaaattga ggtatattttat tagaagtggaa tttgggttgc actcttaatt tgcgtatct 3180
atataattttt gttggggaaa tagaactgag ttgctaaatt ttattgtact cttactcca 3240

tacaagaatg ttatgttcaa taataaaatt ggagaagatt tcattttgtg tttccaggg 3300
 gtattctgtg tggggaaactg tttccttacg tgaggccggc ggcataagtc aaagatgagt 3360
 tttgtccttg cgaatcacac agattgagtc tgggttcccc agggtgtgcc gttacctgat 3420
 ttttaagtga gccagggcgg acagcagctt ttctgattta cagagtctt cagatttaca 3480
 aatggacaat gacatcacag ttttagcac tgaagccagt ctcatgctag taacagtggg 3540
 ttagccgctc gaggactgg gttctaata gatactggat gaacggggag tctctgcagt 3600
 cggcagacaa atcatactca gccccttccc ccgtagagca acaagtggtt ctttagagt 3660
 tgactggca gatccctgt cggggaggt gggtttgat ggagttagaa agctgcctc 3720
 tgtgtacatt ctctcctggg ctgttacttt ctgtagacgc acaaaaatcag ccccaatgtt 3780
 ttaaggggca tcttagccaa ggaagctggc tttgtgtcg ccacttccag gcctgcattta 3840
 agagagagcc caggcaccag ggctaccact ggaacctgccc tcagcgtcaa ctgctgtgg 3900
 tctgtagcca gggccagcct ttgagacggg ttactgtca ccagtagcct ctcagtgcct 3960
 gcctctggct gctctggcc cagctgccc gaggctgcag cctggggagg tactcagcct 4020
 ctggggagacg agggccgtgg actgggtggc tggtagctcc tgcgttttg agctgtgtcc 4080
 tgctggctg ctgcaatga ggtggacacc agtgggtttt ggggtgcact ggccacttct 4140
 tgctgggttc tgattttctt ggaagtgcatt ctgccttctt tatccaatag ttttattccct 4200
 gcattgtctc tgtgaagtgg ctggtttgg tctgtatgtta gcattttgtt cctttctct 4260
 gccaacaaacac tgtcagttta taaacatttt ttatatttcc ctcctttaaa aacagttgt 4320
 gtatttctgc tataaaatgt gtcagcaaa gcaagatgac ctaataggc atgttcttaa 4380
 gcacaggac tgtatcatgc agggccaaat aaagctcaag aaaacgagta 4430

<210> 73

<211> 3276

<212> DNA

<213> Homo sapiens ;

<220>

<221> misc_feature

<223> Incyte ID No: 7526192CB1

<400> 73

caaaaacgccc tggccgtcgc gggcgccat ccgttgcgc aaagcggcgc gagaaacgcc 60
 cagccgggtg ttggccccgc cccgcgtgt gacgtcgccg ggcgcgcgc cccggcggcg 120
 gggcggcgt ggcgaatggg ggcgtatgg ctggccggccc cccgtggcag acgctggcgg 180
 cgtaaaggcgc gcccggcccg gaggcggcgc ggcggagcgc ggcgagcccg ggcgcctcccg 240
 tcggcaacat gcccggcccg gcccaggccg cgcgggagcc ggaggggggg cccaaagcggc 300
 accggagccg gggcgccagg gggcgccggg cccggagcgg gggtccgcgc tgctgtgt 360
 aggccgggccc gggcccccag acgctggccg cggccggccg caccggggag ccaagctgt 420
 agccgtgagg tttggggccg tggatgtgt cagcagaatg tctctgcgc cccggagcga 480
 ccccgaggcc actgagaaga gcaaggccgc ctggccggc cgaacgcctg cgtctcagta 540
 gctggggagcc acggggccac gcccggccac cggccgcagt gatgttctag ccacagagga 600
 gccaagaccc caggtttcca gagacttggg attgcacgg cagcagatc accgtggaga 660
 gcccagggtt tcacaaaactt atggatttt acaagaaaagg agggaaaggg gagacggagg 720
 agggccggag aatgttccaag gcccggccggg gcccggagcag ccacggcattc cggagctgg 780
 ggaccagctc ggggttcctg atggggccccc ccaacttcgg cgtcgccaaag aagatcggt 840
 gccgcactt cggggagctc cgccttagaa agaatctcta tacaatgaa tacgtggcta 900
 tcaaatttgtt gatcgccccc ctccacccca ccccccgtga cgtccccccc agggatttca 960
 gggcagcgcac cccgtccccc ggtgacttcgc tctgtgccc ccaggagccg atcaagtccc 1020
 gggcccccgc gctgcacctg gagtaccgg tctacaagca gctcagcgc acagagggcg 1080
 tccctcaggat ctactacttc ggtccgtcgc ggaagtacaa cgcctatggg ctggagctgc 1140
 tggggcccat cctggaggac ctgttcgacc tggatgtggc gaccttcacg ctcacgcacgg 1200
 tgctgtatgtat cgcctatccag ctgtatcgc gcatggatgat tgtgcacacc aagagcctaa 1260
 tctaccgggat cgtaaaggccc gagaacttcc tggggggccg cccggggacc aagcggcagc 1320
 atgcccattcca catcatcgac ttccggctgg ccaaggagta catcgaccccc gagaccaaga 1380
 agcacatccc gtaccgcgag cacaagagcc tgacgggcac ggcgcgcctac atgagcatca 1440
 acacgcaccc gggcaaggag cagagccgc ggcacgcact ggaggcgctg ggccacatgt 1500
 tcatactgtactt cctggccggc agcctccctt ggcaggggct caaggtgggc gaggaggccg 1560
 ggcaggccggg cggggacgc gggcgccggc aaggctgacc acagaccccc gcaggccgcac 1620
 acgctcaagg agcggatccca gaagatccgg gacacccaaac ggcgcacgc catcgagggt 1680
 ctctgcgaga acttccca gggatggcc acgtacatgc gctatgtgc ggcctggac 1740
 ttcttcgaga agcccgacta tgactaccc gggaaatgttct tcaccgcactt cttcgacccg 1800
 atggcttcg tgttcacta tgatgcac gggccggga agccctgc gaccccccac 1860
 ggcaccgtcc acaccgaccc gcccctcccg cctcagctcc gggacaaaagc ccagccgcac 1920
 agcaaaaacc aggcgttcaa ctccaccaac gggagctga atgcggacga cccacggcc 1980

ggccactcca acgccccgat cacagcgct gcagagggtgg aggtggccga taaaacccaaa 2040
 atgctgcacc aaagctcggg cggcgcggc acggctgctg cagtcttcc cagcctggc 2100
 cctggcaagg ggcgggtggg cgctgcagg cgggtcttc tcgacgcact tgctcccgaa 2160
 ggctgcgccc cggcgcctgg aacccgaggt gggaggaccg gttgggtca ccctgctcg 2220
 ccctcagccc tggcgctgg ggcgcgtgg cacggagctt cttgccttc tgctccgaca 2280
 cccggcaagc agccggagac aaaacgcctt aaagcccccg gcccagccct gcaggtatata 2340
 tgcaggggccc tggggcggc cctggactgg cggcggttc cccagtgaaa tgccctggag 2400
 gctgcccggc agagtggagc agcttggggc cgtcccagg gcggtggctg tgagtcttag 2460
 ttttgcctta ccaagtgtac agaaaatggca ttacgtttc tctgatgctc cttgaagcc 2520
 atagaattta ggggctttt taaaaaaaata aaagaaaaat gaaacccaaac ccaagtgtag 2580
 agggatttgc ctggccttc cacgaagctt gacccggaaac gggcggtctccatccccca 2640
 tcctgcctgt cgggacgag tccggagcgg ctggcggtct cccgttaacag aaaccgactg 2700
 ataggcggaa aggttaaggaa gatggaaagca gagggcagag ctggcgtctg tctggggaga 2760
 gggcaggaga cgagtgttca cgtaccatgg aaaggggaaag tcacacacat gcgacttggc 2820
 cccgggggtc cggccccccg acactacaca aacataccctg aaaggccctcag cgacggggcc 2880
 caggcaggat ggtctggct gctctgacgg cggaaaggccct cctgactcc ctctgttcc 2940
 gcagcaggcc agaaaaacatc tccacggggg ccacgacact gtgaaggaa tcaagcagtag 3000
 ctcccagaag aacagcggaa actcgaggca ggtgaagacc ttgcagcaact agccccggct 3060
 cggccccgtg ctttcctcccc agacaacacc ccatacccccgg cagcaagggt ggaagagacc 3120
 taccaccgtt atatgttgc acaaaggcaga aataatgcac ctgtaaaggt cagatggcaa 3180
 gaggaaatgcg gaatgagctc atcgatggtt ttcccgccag tagcttgggg ataaggacta 3240
 ctgtcatgt gcttatata ttacccaca tggtaa 3276

<210> 74

<211> 3910

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526193CB1

<400> 74

tgcggggggc tggggggggaa acttagttgt tggcagtttc ttcacggat gtgtttaaat 60
 tgcgcgttcc ccacatacgc gcccacccac aaatctcctt cgaggccgtg gaggccacac 120
 ggctgcgcgc tcgccttc ctccaggagt atgcgtggat ttgttagtcca gcagccggac 180
 tgcgcggc tacctttccc agcttgcctt gggctcggt tgatatcaac agtctttcc 240
 agaactctgt ctgcactgag acccttccccc cccagtcctc ttctcgcggc cgtactccctc 300
 ccattcgtgg cgcacagaacg gcggttgccag gagggggccc ggtccctcgc cgcgcggccc 360
 cgaggggcgc ttccggccgc ggttcaactt ctgggtgggt ggatggagcc gggcgggagc 420
 ggcgcggggg gaggggccgc gggtcagttt cccgcggc cttccggat cagctggccg 480
 gcccggggaa gcccggccgc gccccggctc tcgctgcgc gcccctt ctctgcgtcg 540
 caggccggcc cggcggccgt gacaatgtcg cggggctggc agcaggccgc cggccgcgc 600
 gccgtctcaa gtttaaactt acacgaatcg ctttctggag gaggaggaa cccgcgtgcgc 660
 gattgacacg catattccta taggcatttcc ccctcagccc ccaccccccac gcccggattt 720
 gggggctcc tctccgaggt gaaatcttag aagaaaatctt tggatcttctt ttcttaaaaa 780
 aaaaaaaaaa aaaaaaaaaa tctagaaaacc atcggtattt tgctttgtcg ctccctattt 840
 gcaagatgaa gaagttttc gactccggc gagagcaggc cggctctggc ctgggctcgg 900
 gctccagccg aggagggggc agcacctcg gcctggccag tggctacatc ggaagagtct 960
 tcggcatccg ggcacagcag gtcacagtgg acgagggttt ggcggaaagggt ggatttgcta 1020
 ttgtatttctt ggtgaggaca agcaatggaa taaaatgtgc ttgaaacgc atgtttgtca 1080
 acaatgagca tgcattccat gttgtcaaga gagaaatcca gataatgagg gatcttcag 1140
 ggcacaagaa tattgtgggt tacattgatt ctgtatcaa caacgtgagt agcgggtatg 1200
 tatggaaagt gctcattctg atggactttt gtagagggtgg ccaggtggta aacctgtatg 1260
 accagccctt gcaaaacaggc ttacagaga atgaagtgtc ccagatattt tggataaccc 1320
 gtgaagctgt tggcccttc catcgtgcgaaactccat tatccaccgg gacctgaagg 1380
 ttgaaaacat ccttcgtcat gaccggggcc actatgttcc ttgtgacttt ggaagcgcca 1440
 ccaacaaaat ccagaatcca caaactgagg ggtcaatgc agtagaaagat gagattaaga 1500
 aatacacaac gctgttctat cgagcaccag aaatggtcaa cctgtacatc gcaaaaatca 1560
 tcactacgaa ggcagacatt tgggtcttgc gatgtttttt gtataaatta tgctacttca 1620
 ctttgcatt tggggaaaatg cagggtggaa ttgttgcgtt aaacttcaca attcctgata 1680
 attctcgata ttctcaagac atgcactgccc taatttagta tatgttggaa ccagaccctg 1740
 acaaaaaggcc ggtatatttac cagggtgttcc acttctcatt taagctactc aagaaaagagt 1800
 gcccaattcc aaatgtacag aactctccca ttccctgaaaa gcttcctgaa ccagtgaaag 1860

ccagtggggc agctgcaaaa aagacccagc caaaggccag actgacagat cccattccca 1920
 ccacagagac ttcaattgca ccccgcaga ggctaaagc tgggcagact cagccgaacc 1980
 caggaatcc tcccatccag ccagcgctga caccccgaa gagggccact gttcagcccc 2040
 cacctcaggg tgcaggatcc agcaatcagc ctggccttt agccagtgtt ccccaaccaa 2100
 aaccccaagc cccacccagc cagcctctgc cgcaaactca ggccaagcag ccacaggctc 2160
 ctcccactcc acagcagacg cttctactc agggccaggg tctgcccgt caggcccagg 2220
 ccacacccca gcaccagcag caactctcc tcaaggcagca acagcagcag caacagccac 2280
 cggcagcaca gcagcagccg gcaggcacgt ttaccagca gcagcaggcc cagactcagc 2340
 agtttcaggg agtacatcca gcaacccagc aaccagcaat tgctcagtt cctgtgggt 2400
 cccaaggagg ctctcaacag cagctaattc agaatttcta ccagcagcag cagcagcagc 2460
 aacaacaaca gcaacacgca cagctggca cagccctgca tcaacaacag ctgatgactc 2520
 agcaggctgc ttgcagcaa aagcccacta tggcagcagg acagcagccc cagccacagc 2580
 cagctgcagc cccacagcca gcccctgccc aggagccagc gcagattcaa gcccagtaa 2640
 gacaacagcc aaagggttcag acaacccac ctccctggcgt ccagggcag aaagttggat 2700
 ctctcactcc accctcatcc cccaaaaccc aacgtgtcgg gcacaggcgt attctcagtg 2760
 acgtaaacccca cagtgcagtc ttgggggtcc ctggcagcaa atcaacccag ctgctccagg 2820
 cagctgcagc tgaggccagt ctcaataagt ccaagtctgc aaccaccact ccatcaggct 2880
 ctccctggac ctctcaacaa aacgtttata atccttcaga agggtctacg tggaaatccct 2940
 ttgatgacga taatttctcc aaactcacag ctgaaagaact gctaaacaag gactttgcca 3000
 agcttggggg aggcaaacat cccgagaagc ttggaggctc agctgagagt ttgatcccag 3060
 gcttcaatc aacccaaggt gatgcttttgc ctacgacctc attttctgt ggaactgaaa 3120
 aactaattga gggactcaaa tctcctgaca ctctcttct gctccctgac ctcttgccta 3180
 tgacagatcc ttttggtagc acttctgtatc ctgtaattga aaaagctgat gttgctgtt 3240
 agagtctcat accaggactg gagccccccg ttcccccagcg cctcccatct cagacggaaat 3300
 ctgtgaccc tcgtcgacca gattctctca cggggagaat ttccctgctt gattgctctc 3360
 tgctctctaa ccctactact gaccttctgg aagagttgc cccacagca atctctgctc 3420
 cagtccataa agctgcagaa gatagtaatc tcacatcagg ttttgcgtc cctgagggtc 3480
 cggacaagggt ggctgaagat gagtttgacc ctattccctgtt attgataacc aaaaacccac 3540
 aagggtggca ctctagaaac agcagtggg gctctgagtc cagtctccc aacctagcca 3600
 ggtctttact gctgggtggat cagctcatag acctgttagcc gtgaccaggc agcagatgca 3660
 gttctgtaac ctccataccg taaaatacat tttcattacg gagttatgaa aaaaatgatt 3720
 ttttaaaaaa aatctgcaaa taagggggcc tccagccctt ttctcctacc cttgccttc 3780
 tcctgttagaa atgataagga aagaaaatca ctggggccct ccagatattc cttggccagt 3840
 tcctccttgc tagtttgcgt tgtttctca ttaacccttct tcaatagcat tatcttaat 3900
 caagcactag 3910

<210> 75
 <211> 4380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526196CB1

<400> 75
 gccgcggccgg aggggacggg gctaggccgg gtcggccgc gacgcgacgc gtcctcagg 60
 ggcctacgt cacggcgctg aggccgaaaga tgggtcacct ccggggccggc gtttgcgt 120
 ctgaccggc cggcgaggga gccccggcc gagcccgacc actccggctg cccgggggtg 180
 cggcgcagcc accccatgt cgctgcgtca gtcggcgctc gacttcttgg cgggtccagg 240
 ctccctgggc ggtgcttccg gccgcacca gagtgacttc gtggggcaga cgggtggaaact 300
 gggcgagctg cggctgcggg tgcggcggt cctggccgaa ggagggttg catttgcgt 360
 tgaagctcaa gatgtgggg a tggcagaga gtatgcatta aagaggctat tatccataga 420
 agaggaaaag aacagagcca tcattcaaga agtttgcattc atgctctgtt cactcggaga 480
 gccccggcc tgcctgagtg tgggttccgg tggacacagc cacgcctcag cttccctgcg 540
 cacagccccc tgagggccct gcctccctt gccacgcgcg ggttgactt tgggtgcgt 600
 gtggtcagtg cacagaactg tggacatgtt tatgtacgtt ctcccttaaa caagacaact 660
 gcagaaaaaaag cttccggcc acccgaaacat tggccagttt tggctgcag cgtctatagg 720
 aaaagaggag tcagacacgg ggcaggctga gttcctcttg ctcacagagc tctgtaaagg 780
 gcagctgggt gaaattttga agaaaaatgga attcgcaggc ccccttgcgt gggacacgg 840
 tctgaagatc ttcttaccaga cgtggccgc cgtgcagcac atgcacccggc agaagccgg 900
 catcatccac agggacctca aggttgagaa ctgttgcatt agtaaccaag ggaccattaa 960
 gctgtgtgac ttggcagtg ccacgaccat ctgcactac cctgactaca gctggagcgc 1020
 ccagaggcga gcccgggtgg aggaagagat cacgaggaat acaacaccaa tgtatagaac 1080

accagaaaatc atagacttgtt attccaactt cccgatcgcc gagaagcagg atatctggc 1140
cctgggctgc atcttgtacc tgctgtgctt ccggcagcac cctttgagg atggagcga 1200
acttcgaata gtcaatggga agtactcgat ccccccgcac gacacgcagt acacggctt 1260
ccacagcctc atccgcgcca tgctgcaggt gaacccggag gagcggctgt ccacgcgg 1320
ggtgggtcac cagctgcagg agatcgccg cgcggcaac gtgaacccca agtctccat 1380
cacagagctc ctggagcaga atggaggcta cggagcgcc acactgtccc gaaggccacc 1440
ccctcccgta ggcggcgctg gcagtggctt cagtgaggc cttggctgg cggaggtacga 1500
ccagccgtat ggcggcttcc tggacattct gcgggggtggg acagagcgc tcttcaccaa 1560
cctcaaggac acctcctcca aggtcatcca gtcgtcgct aattatgca aagggtgac 1620
ggacatatct tacatcacat ccagaattgc agtgatgtca ttcccacgag aagggtgtg 1680
gtcagcgctc aaaaacaaca tcgaagatgt gcggtgttc ctggactcca agcaccagg 1740
gcaactatgcc gtctacaacc tggcccccgg gacctaccgg ccctccagg tccacaacc 1800
gtctcccgag tggctgtggg cagcacggc ggccccacac ctgcacaccc tgtacaacat 1860
ctgcaggAAC atgcacggct ggctgcggca ggaccacaag aacgtctgcg tcgtgcactg 1920
catggacggg agagccgcgt ctgtgtggc cgtctgtcc ttccctgtct tctgcccgt 1980
cttcagcacc gcgaggaggccg ccgtgtacat gttcagcatg aagcgtgcc caccaggcat 2040
ctggccatcc cacaaaaagg acatcgaga catgtgtgac atgggtgggg aggagccat 2100
cacacccccc acgaagccca tcctggtgag ggccgtggc attgacaccc gtggccggt 2160
ttcagcaagg agaggaggccg ctgcaggcccc ttctgcgagg tctacgtggg ggacgagcgt 2220
gtggccagca cctcccgaga gtacgacaag atgcccggact ttaagattga agatggcata 2280
ggggtgattc ccctggcggt cacggtgca gggagacgtc tcatcgcat ctatcacggc 2340
cggtccactc tggggggccg gctgcaggcc aagatggcat ccatgaagat gttccagatt 2400
cagttccaca cggggtttgt gcctcggaac gcccacactg taaaatttgca caagtatgac 2460
ctggacgcgt gtgacattca agaaaaatac cggatttat ttcaagtga cctggaaagt 2520
gaggtggagc ccagggacag gcccggccgg gaagccccac catggagaa ctcgagcatg 2580
agggggctga accccaaaat cctgttttc agccgggagg agcagcaaga cattctgtct 2640
aagtttggga agccggagct tccccggcag cctggctcca cggctcagta tgatgctggg 2700
gcagggtccc cgaaagccga acccacagac tctgactcac cgccaaaggccg 2760
gccagtcgtc tccgtcacac gctggactgg caggaagaga aggaggcaga gactgggtca 2820
gaaaatgcct cttccaaggaa gagcgagttc gccctgtatgg aggacagaga cgagagttag 2880
gtgtcagatg aagggggatc cccgatctcc agcgaggccc aggaacccag ggccgacc 2940
gagcccccccg gcctggcagc aggggtggg cagcaggact tggttttga gttggagaca 3000
ccggctgtgc tgccagagcc tggccacag gaagacgggg tcgacccctt gggcctgcac 3060
tccgaggtgg ggcagggcc agctgtaccc cgcaggccct gcaaggcccc ctccagcaac 3120
accgacctgc tcagctgcct cttggggccc cctgaggccg cttcccaggg gccccggag 3180
gatctgtca gcgaggaccc gctgtctcg gcaagccccg cccctccctt gagcgtgcag 3240
agcccccaag aggaggggcc cttcccgctg ctgacccctt tggcccgtt ctgcccgtt 3300
caggcaacaa cttcccgccccc tgctccaatc ctgatctttt cggcgaattt ctcaattcgg 3360
actctgtgac cttcccgacca tccctccgt ctggccacag cgctccgccc ccattctgc 3420
gcccggactt cttcccgatgg cttcccgatgg cttcccgatgg cagcaagatg acagcctcg 3480
ccagcaaccc agacctgtg ggaggatggg ctgcctggac tggaggctcag cccggcccc 3600
tggccccccac gccaggccaca gaaggcccccc ttttcttc cccatttgc gaccttggcg 3660
gtggctctca ggcagctgg accaagtctc agaaccggaa agtggggccca agggggac 3720
acctcagctc cggccctcaa gacccccaag cccagagcac tggggccctt gggccac 3780
gtgtctgcac ctgtttccagg cgactgccaa ctggcaagct aaaacccggaa gttgctgaca 3840
ctggcactgc tgccagcccc caccggcatt gtggctcacc gacatttgc gacattcggc 3900
gtttcattcc caaaacggcc accacggccca aaggcagcag gcccggccaa gctgcac 3960
cgccagccca gggcgctca tggccccctt agggcaagcc agccaggccaa gggccggcc 4020
agccaaggcc taactatgcc tcgaacttca gtgtgatgg ggcggggaa gagcgggggg 4080
tccgcgcacc agcttgctc aaaacccaaa gtctctgaga acgacttgc agattgtgt 4140
ccaataaggc ttctcctcca ggtctgaaag aaaggggcaaa gacattgcag agatgaggag 4200
aggacctggc taaagacacg gaccactca agctgaagct cttggactgg attgagggca 4260
aggagcggaa catccggggcc ctgctgtcca cgctgcacac agtgcgtgtgg gacggggaga 4320
ggcgctggac gcccgtggc atggccgacc tgggtggctcc ggagcaagt aagaagca 4380
atcgccgcgc ggtgctggct gtgcaccccg acaaggtgag cagagctgcc agggccgc 4380

<210> 76
<211> 4293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7526198CB1

<400> 76
gcccggccgg aggggacggg gctaggccgg gtcgcgcct gacgcgacgc gtcctcacgg 60
gcttacgt cacggcgctcg aggccgaaga tggtcaccc cggggccggc gttgcttag 120
ctgaccggc cggcgaggga gccccggccc gagccgacc actccggctg cggcgggtg 180
cggcgagcc accggcatgt cgctgctgca gtcggcgctc gacttcttg cgggtccagg 240
ctccctggc ggtgttccg gccgcgacca gatgtttcc gacttcttg cgggtccagg 300
ggcgagctg cggctcgggg tgcggcgggt gatgtttcc gatgtttcc ggggtttt 360
tgaagctcaa gatgtgggg gttttcc gatgtttcc gatgtttcc ggggtttt 420
agaggaaaag aacagagcca tcattcaaga agtttcttc atgaaaaaagc tttccggcca 480
cccgaacatt gtccagttt gttctgcagc gtctatagga aaagaggagt cagacacggg 540
gcaggcttag ttctcttgc tcacagagct ctgtaaaggg cagctggtg aattttgaa 600
gaaaatggaa tctcgaggcc cccttcgtg cgacacggtt ctgaagatct tctaccagac 660
gtgccgccc gtgcagcaca tgcacccggca gaaaggccccc atcatccaca gggacctcaa 720
ggttggaaac ttgttctt gtaaccaagg gaccattaag ctgtgtact ttggcagtgc 780
cacgaccatc tcgcaactacc ctgactacag ctggagcggcc cagaggcgag ccctgggtga 840
ggaagagatc acgaggaata caacaccaat gtatagaaca ccagaatca tagacttcta 900
ttccaacttc ccgatcgcc agaagcagga gatctggcc ctgggctgca tcttgttaccc 960
gctgtgttc cggcagcacc cttttaggaa tggagcgaaa cttcgaatag tcaatggaa 1020
gtactcgatc ccccccgcacg acacgcagta gtcgtccatc cacagcctca tccgcggcat 1080
gctgcagggtg aacccggagg aacccgggtt catcgccgag gtggtgcacc agtgcagga 1140
gatecgccgccc gcccgcacg tgaaccccaa tggaggctac gggagcggca cactgtcccg tggagcggaaa cttcgaatag tcaatggaa 1200
cagttggctac agtggaggcc tggcgttgc gggccaccc cttccgtgg gccccgtgg 1260
ggacatctg cgggggtggg gtaggggttgc gtaggggttgc gtaggtacac cagccgtatg gcccgttcc 1320
ggtcatccag tcgtgtctt attatgcaaa cttcaccacac ctcaaggaca cttccctccaa 1380
cagaattgca gtgtatgtcat tcccacggaa ggtgttcc gacatccatc acatcacatc 1440
cgaagatgtg cgttgcattt tggactccaa ggtgttcc gacatccatc acatcacatc 1500
gtccccgagg acttaccggc cttccagggtt gtcgttcc gacatccatc acatcacatc 1560
agcacggcgg gccccacacc tgcacccctt gtcgttcc gacatccatc acatcacatc 1620
gctgcggcag gaccacaaga acgttgcgtt gtcgttcc gacatccatc acatcacatc 1680
tgctgtggcc gtctgtctt tcctgtgtt gtcgttcc gacatccatc acatcacatc 1740
cgtgtacatg ttccagcatga agcgttgcgtt gtcgttcc gacatccatc acatcacatc 1800
catcgagttc atgtgtgaca tgggtggcggaa ggtgttcc gacatccatc acatcacatc 1860
cctggtgagg gccgttgcata tgacacccgtt gtcgttcc gacatccatc acatcacatc 1920
caggcccttc tgcgagggtt acgtggggaa ggtgttcc gacatccatc acatcacatc 1980
cgacaagatg cgggacttta agattgaaga ggtgttcc gacatccatc acatcacatc 2040
ggtgcaagga gacgttgcata tcgttcatcta gtcgttcc gacatccatc acatcacatc 2100
gcaggccaag atggcatcca tgaagatgtt gtcgttcc gacatccatc acatcacatc 2160
tcggaacgccc accactgtga aatttgcata gtcgttcc gacatccatc acatcacatc 2220
aaaatacccg gatttatttc aagtgaacctt gtcgttcc gacatccatc acatcacatc 2280
gagccggaa gccccacccat gggagaactt gtcgttcc gacatccatc acatcacatc 2340
gttttcaggc cgggaggaggc agcaagacat gtcgttcc gacatccatc acatcacatc 2400
ccggcagccct ggctccacgg ctcagttatgaa gtcgttcc gacatccatc acatcacatc 2460
cacagactct gacttaccggc caagcagcag gtcgttcc gacatccatc acatcacatc 2520
ggacttggcag gaagagaagg aggcaagagac gtcgttcc gacatccatc acatcacatc 2580
cgagttgtcc ctgtatggagg acagagacga tgggttcc gacatccatc acatcacatc 2640
gatcttcaggc gggggccagg aacccagggtt gtcgttcc gacatccatc acatcacatc 2700
gctgtgtccg caggacttgg tttttggat gtcgttcc gacatccatc acatcacatc 2760
gccacaggaa gacgggggtcg accttctggg gtcgttcc gacatccatc acatcacatc 2820
tgtacccccc caggctgtca aggccccctt gtcgttcc gacatccatc acatcacatc 2880
tggggccccc tggggccctt cccaggggcc gtcgttcc gacatccatc acatcacatc 2940
gctcttggca agccccggcc cttcccttgat gtcgttcc gacatccatc acatcacatc 3000
tgccgttgc gaccctttt gcccgttctt gtcgttcc gacatccatc acatcacatc 3060
ctccaatctt gatcttttc gcaattttt gtcgttcc gacatccatc acatcacatc 3120
cttccgttctt gcccacaggta ctccggggcc gtcgttcc gacatccatc acatcacatc 3180
ggatctgcca ggagagccca gcaagatgac gtcgttcc gacatccatc acatcacatc 3240
aggatgggtt gcttggaccg agacttgcgtc gtcgttcc gacatccatc acatcacatc 3300
aggccccctt ttctcttctt gagggttgcgtc gtcgttcc gacatccatc acatcacatc 3360
caagtctcag aacccggacc catttgcata cttggcgac gtcgttcc gacatccatc 3420
cccccaagcc cagggccagg tgagcccaag gggacagcgt gtcgttcc gacatccatc 3480
actgccaact ggcacggtaa aaccggggat gtcgttcc gacatccatc acatcacatc 3540
ccggcattgt ggcttaccggc ctggattttt gtcgttcc gacatccatc acatcacatc 3600
cagccccaaa ggagcggacc cttggcgac aagtggggcc gtcgttcc gacatccatc 3660
gccccctcag gccaaggccggccccaaagcc cttggcgac aagtggggcc gtcgttcc gacatccatc 3720
gccaaggccggccccaaagcc cttggcgac aagtggggcc gtcgttcc gacatccatc 3780

```

gaacttcagt gtgatcgaaa cgcgggagga gcggggggtc cgccgcacccca gctttgctca 3840
aaaggccaaaa gtctctgaga acgactttga agatctttg tccaaatcaag gcttcttcctc 3900
caggctgtac aagaaaagggc caaagaccat tgcagagatg aggaagcagg acctggctaa 3960
agacacggac ccactcaagc tgaagctcct ggactggatt gagggcaagg agcggaaacat 4020
ccggggccctg ctgtccacgc tgcacacagt gctgtggac ggggagagcc gctggacgcc 4080
cgtgggcattt ggcgacactgg tggctccgga gcaagtgaag aagcactatc gccgcgcgg 4140
gctggccgtg caccggacca aggctgcggg gcagccgtac gaggcagcacg ccaagatgtat 4200
cttcatggag ctgaatgacg cttggtcggg gtttgagaac cagggtctccc ggccctctt 4260
ctgaggcccgc agtgggtgggt gctgcgcaca cag 4293

```

<210> 77
<211> 6538
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7526208CB1

<400> 77
ggagttactc agaagggaag ggaagggtgtg gttgtcgccg gtagttttt ctttcatct 60
tttaacgttc acagccaaag caaaggccctt tggggatgc cagactctca gccaccatcc 120
tggaaaacag cgggggaggt gggcttggag gtggcaagtg taatgtggct cagggccgt 180
cattgccccct tgcagaaggg gctgcggggg agggagaaaa cctgcggccg gttctggga 240
gctggcagc cagtgaaccc tgctgaggct gggtttgc cgcacagtcg ctggggctg 300
tgggaagggt tggaccctt ctctgagagc agtgaacagc ccacatccgg cccctgctgt 360
gtcaactctg agcggcgtgg agatgaagtg gttgctctcc cttgctcgcc ccaccgggtg 420
tcgtggcccg ggaaccggcc tggagaagtc cctgctgccc ggcccccggg acagggccgt 480
gggctccgc gacccagggc ggctgccccg ggccatctc gagttccct gcatcttccc 540
gctcagtcag ccccagattt aggcagccctt ctctgtgcgg gttaaatgg gtaactgtga 600
cttctcgctt cattcaccca aacctccagt cttctccccc gcacatcctc ctccacccac 660
ctggtttctc cctagactgg tgcgtcggt tgcgtcaacca aaggagggag tgcgagagat 720
ccacgaaggg acaggcttgg agtcgtcaga gggaggtgtg ggaccagcga ggagggggct 780
tcgcccaggga gggggtctg gcaggcggag ggagcggccg gaggaggcgc cggaggagga 840
gacggaggcc tggggacggc agaaggaggct tcgcctgagc cgagcgtct ttctctcgcc 900
gcgcgtctt gaaggcggc gggctctgtg gcagcggcag gcccggcaagg tgccctcgctt 960
cgccggagcc gtcgcccggcc gccggaggga agccggctc gggcgccac gtcgtcgga 1020
gccccggcgc gccccggcgc tgagcctgtc gacagcggccg cggggccagt cccgggtta 1080
gcccgcgcgc tgctcgcttc tggtoctgtc cgctcccaagc cagggccacag cccggaccga 1140
ggatggcttc gaccacaacc tgacccaggc tgacggacga gtatcagctt ttcgaggagc 1200
ttggaaaggg ggcattctca gtggtgagaa gatgtatgaa aattcctact ggacaagaat 1260
atgctccaa aattatcaac accaaaaaagc tttctgtct ggtgcgactt catgatagca 1320
tatcagaaga gggcttcac tacttgggt ttgatttagt tactggaggt gaactgttt 1380
aagacatagt ggcagagaaa tactacagtg aagctgtatc cagtcattgc attcagcaga 1440
tcctggaggg tgcgtacac tgccatcaga tggcggtgtt ccatcgggac ctgaaggcctg 1500
agaatttgct ttagctagg aaatccaagg gacgagctgt gaaattggca gactttggct 1560
tagccataga agttcaaggg gaccaggcagg cgtggtttgg tttgctggc acacctggat 1620
atctttctcc agaagttta cgtaaaagatc cttatggaaa gcaagtggat atgtgggcat 1680
gtgggtgtcat tctctatatt ctactgtgg ggtatccacc cttctggat gaagaccaac 1740
acagactcta tcagcagatc aaggctggag cttatgatt tccatccaca gaatggaca 1800
cggtgactcc tgaagccaa gacccatca ataaaatgt tactatcaac cctgccaaac 1860
gcatcacagg ctcagaggca ctgaagcacc catggatctg tcaacgttct actgtttgctt 1920
ccatgtatca cagacaggag actgttagact gttgaagaa attaatgtc agaagaaaaac 1980
taaagggtgc catcttgaca actatgtgg ctacaaaggaa tttctcagca gccaagagtt 2040
tggtaagaaa accatgtgg gtaaagaaaaa ggaagtcagg ttgcagttt cagatgtgg 2100
agtcaactga gagttcaaat acaacaattt aggtgaaga tggtaagaca cggaaagcaag 2160
agattatcaa agtcaactgaa caactgtatcg agtctatcc caatggggac tttgaaggct 2220
acacaaaaat ctgtgaccca ggcctactg ctttgaacc tgaagcttgg ggttaatttag 2280
tggaggat ggattttcac cgattctact ttgaaaatgc tttgtccaaa agcaataaac 2340
caatccacac tattattctca aaccctcatg tacatctgtt agggatgtat gcccgcctgca 2400
tagcatatat taggctcaca cagtagatgg atggcagttt aatgccaaag acaatgcagt 2460
cagaagagac tcgtgtgtgg caccggccggg atggaaagtg gcagaatgtt cattttcatc 2520
gctcggggtc accaacagta cccatcaagc caccctgtat tccaaatggg aaagaaaaact 2580
tctcaggagg cacctttttt tggcaaaaaca tctaaggct gaaaaccatt cacatatqqq 2640

tcttctaaat ttcaacagtg ccacttctgc attctctgtt ctcaaggcac ctggatggtg 2700
 accctggcc gtcctctcct cctcttcatg catgtttctg agtgcataaa gttgtgaagg 2760
 tcctacatgt aatgcataatg tgatgcata tcttatacata tattccctcc tatacattgt 2820
 ttacacttca actacgggaa tggtccacac aaacttaaat tactgttgc aaaacaatag 2880
 ggggagatta gacaaaaaaaaaa aaaatccaca atattccaag tacaacttca catcaagttt 2940
 ctctgttaat gccaagattt aacagactt agaactattt ttctctgaat gacagttgt 3000
 agagaaatgt aaattttta gaactcttgc ttgttaatct gtttgggtt gtttgggtt 3060
 tttttttttt ttaaggtaa aaaaaaaaaa caccctcgt ttccctgggt gatcctgggt 3120
 aaaatggatg attttcatt gaaagtttgc ctgatataaca attaaagtgg gatgatatgt 3180
 gggcaaaatc acttatgaaa gtagaagcaa gaatcagttt gtttgcacc acataaaagcc 3240
 atgctgtttt tggtcaaaact gtgtaaacttca gaaaaatttca catcatttctt gagtttaatc 3300
 acttttaggat atattcacat ttttttgggt aatttgcata attgaattgt ttttcttctt 3360
 caaatctgtt atctcttttcc tttatccgtt ttctttgttcc ttccgtttt ctttcttatt 3420
 ttcttttgggt ttccattttt ttcttactttt ttccctttt cttttttgggg ggaggctggc 3480
 tagtagtgc tgagaaaaaga atagaagtgaa aatttgcata atgaatgtaa aaggaaaaata 3540
 aaagtctttt gaaggtagt atactagcac ttttgcata ttccaggcc cacaaaaaatg 3600
 ttgtcaagat tttaaagggtt tataatttgc tttaagcttctt agttggact taggtatct 3660
 aactatgtttt gaggattttt cattgtttaa agttaggata aaagcaagttt cttctgttgc 3720
 ctgcaacgtt ttactgtttt ggacagttgc caggaggata ccaacttgc atgcagaggg 3780
 gttttatgca aacgcactca cctccgcctt gggaaatgaa agggtcactt ctgcatacatc 3840
 actagctatgtt ttcttagtgc tagagaggct tacaatgtt tgccatttctt ataagtgtt 3900
 tgaacttgc ttttgcact ttgtgtttt ttagcttctt tcttgcata gaggatcatt 3960
 gtcttcctcc aaggagttt aatttcccg tttaaaacaa aaaggaaat gtccttaggtt 4020
 ttctttgtgc ttctcattttt tcctttgtt attcaatttcc tttgtatttt gttcttttcc 4080
 ctgaagtgc ttacagtgc tggaaatcttcc atcattgttta tttaacgcata agtaatttac 4140
 agtcctcaga agcctattttt taaagcagaa gaaaaaaaaga aaaacaaaat aacaaaaaca 4200
 acccttcctt ttttcttca tctcacccctt ctgtgttgcata tactaatcat cttagatatt 4260
 attgcttagt gatgtatgtt agatgggtt aagtttttctt gataatttattt acacaattt 4320
 aaacaacata tatattttaa ataaatataat acagtaataa tattgagcca ttttaaccc 4380
 ccaatgagat ctgtgaaaaaa ataatggcctt catttttctt ttttaattt cttttaccct 4440
 ttgtgaagc agctatacgt ggcatacatg tattttaaaga aaaaaaaaaata gatgttagat 4500
 gtttttttta cacttttac tttagcatgtt gtgttgaagt attactgttgc atcaagttt 4560
 tcttcgcac taagatgtt gggaaatttgc atttgcata tccaccacaa atgaattaca 4620
 catttattat ttctcattcat ttgttacatc tgcagtttac catggacac tttgtatattt 4680
 tcttgccttca atggtaaagg actgattgtt atatttgcata gttataaaat ttgtgattt 4740
 tgctgacagt ggcgcatttttcc ttatcccttca agaagaggtt ctgtatgtat gcctgcata 4800
 tgctggccag tgcgttgcacttctt actctggctt cattttgttgcata acacaattt 4860
 gcaacttgggtt aggaggacata tattttgcata aactaagactt cttttttttt cttttttttt 4920
 gtacccttca atccgcctt cacatggctt cttttttttt tttttttttt acgaacctgt 4980
 ctttgcata ttttgcatttttcc ttatcccttca ggcataccgc aaccccccgc tttttttttt 5040
 ctcccccagct tgaacttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5100
 tcacacttgc tcacatgcctt gtttatgttgc ttcatgttgc ttatgttgc ttttgcata 5160
 aataatgttgc ttcccttactt ttttgcata ttttgcata ttttgcata ttttgcata 5220
 cagcatcatg ctccacacgc aaccccttca ggccttccatc ttttgcata ttttgcata 5280
 aaccccttca aatagattgtt atttgcata ttttgcata ttttgcata ttttgcata 5340
 ttcttatttttgc ttcttccttca ctgcataatgcata atgttgcata ttttgcata ttttgcata 5400
 tcatttgcattt ctttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5460
 ttgttgcattt gccaaggccctt ttttgcata ttttgcata ttttgcata ttttgcata 5520
 gtttttttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5580
 ctgacccttca gttttccat ttttgcata ttttgcata ttttgcata ttttgcata 5640
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5700
 agtataactt ttctgttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5760
 gggatcataaa ctcttgcatttttgc ttttgcata ttttgcata ttttgcata ttttgcata 5820
 ctgaggatcatc actcggttgc aatgttgcata ttttgcata ttttgcata ttttgcata 5880
 gtcataatgttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 5940
 attttgcattt aatataatgcata ttttgcata ttttgcata ttttgcata ttttgcata 6000
 taagggttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6060
 ttcttgcatttttgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6120
 acaaaaaatgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6180
 gtttttttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6240
 ttcttccttca ctttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6300
 agggaaatgtt gtttttttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6360
 ttgttgcatttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6420
 ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata 6480

gcttaattaa tttaaaaaag tgtaaggct gccccactgg ttctgtgttc actacagc 6538

<210> 78
 <211> 2349
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526212CB1

<400> 78

ggagttactc agaagggaag ggaagggtgtg gttgtgcggc ggagttttg cttcattct 60
 ttaacgttc acagccaaag caaaggccctt tggggattgc cagagtctca gccaccatcc 120
 tgaaaaacag cggggaggt gggcctggag gtggcaagtg taatgtggct cagggggcgt 180
 cattggccct tgcagaaggg gctgcggggg aggagaaaaa cctgcggccg gtctgggga 240
 gctggcgacg cagtgaaccc tgctgaggt gggtttgcc ccgacagtcg ctggtggtc 300
 tggaaagggt tgggacccctt ctctgagac agtgaacagc ccacatccgg cccctgtgt 360
 gtcaactctg agcggcggtt agatggatg gttgtctcc cttgctcggc ccaccgggt 420
 tcgtggcccg ggaacccggcc tggagaagtc cctgctgccc ggcgcggccaa acaggggcgt 480
 gggcttccgc gaccggggc ggctgccccg ggcacatcctc gagttggccctt gcatcttccc 540
 gctcagtcag ccccaaggattt aggcaaggctt ctctgtgcgg gtttaaatgg gtaactgtga 600
 cttctcgccctt cattcacccca aacctccagg cttctcccccc gcacatccctc ctccacccac 660
 ctggtttctc cctagactgg tttgtctcggt tttgtcaacca aaggaggggag tgctgagagat 720
 ccacgaagggg acaggcttgg agtcgctaga gggaggtgtg ggaccagcga ggagggggct 780
 tcgcggggc ggggggtgtg gcaggcgagg ggagcgccgg gaggaggcgc cgaggaggaga 840
 gacggaggcc tggggacggc agaagagggt tcgcctgagc cgagcgtctt ttctctcgcc 900
 ggcgcgtctt gaagccggc gggctcgta gcagcgccgg ggcgcggccac gtcgtcggtt 960
 cggccggagcc gctgcggccc gccggaggga agccggccctc gggggccagt cccgggggta 1020
 gccccggcgc gccccggcgc tgacgctgt gacagcgccg cggggccatggcc 1080
 gccgcgcgtc tgctcgcttc tggccgtcg cgctccaggc cagggcacaag cccggaccga 1140
 ggtatggcttc gaccacaacc tgcaccaggat tcacggacga gtatcagctt ttctggggc 1200
 ttggaaagggg ggcattctca gtggtgagaa gatgtatgaa aattcctact ggacaagaat 1260
 atgctgccaa aattatcaac accaaaaaaac tttctgtctg ggtgcactt catgatagca 1320
 tttatcagaaga gggcttcac tacttggtgg ttgatttagt tactggaggt gaactgtttt 1380
 aagacatagt ggcaagagaa tactacagtg aagctgtatgc cagtcatgtt attcagcaga 1440
 tcctggggc tttgtctacac tgccatcaga tggggctgtt ggcaggatggat atgtgggcat 1500
 agaattttgtt ttttagctac aatccaagg gagcagctgtt gaaattggca gactttggct 1560
 tagccataga agttcaagggg gaccaggcagg cgtgtttttt tttgtctggc acacctggat 1620
 atctttctcc agaaggtttta cgtaaagatc cttatggaaa gccaggatggat atgtgggcat 1680
 gtgggtgtcat tctcttattt ctacttggtt ggtatccacc cttctggat gaagaccaac 1740
 acagactcta tcagcagatc aaggctggag cttatgtattt tccatcacca gaatgggaca 1800
 cgggtactcc tgaagccaaa gacccatca ataaaaatgtt tactataac cctgccaaac 1860
 gcatcacagc ctcagaggca ctgaaggcacc catggatctg tcaacgttctt actgttgctt 1920
 ccatgatgca cagacaggag actgttagact gcttgaagaa atttaatgtct agaagaaaaac 1980
 taaagggtgc catcttgaca actatgtgg ctacaaggaa tttctcagca gccaagagtt 2040
 ttttgaagaa accagatgga gtaaaggagt caactgagag ttcaaataca acaattgagg 2100
 atgaagatgt gaaaggcacc gtggctcacc cctgtatcc cagcacatttggatgggtcgag 2160
 gccccccatggat cacctggggc caggaggatca agaccagcat ggcacccatg gtggaaaccct 2220
 gtctctacta aaaatacaaa aattagctgg gtgtgggttcc aggcacccctgtt aatcccacgt 2280
 actctggagg ctgagacagg agaatcgctt gaacccggga ggtggagggtt gcagtgagcc 2340
 gagatcaaca 2349

<210> 79
 <211> 8015
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526213CB1

<400> 79

agccggggcag ctgcagcggc gccgcggggc gggccggggg gcccaggctg tgcgtttggg 60

gagcgcggaa	tgtaggcgtt	ggcgggcccgc	agcacgcctcg	gacggggccag	gggcggcgcac	120
ccctcgccga	cgccccggctg	cgcggccgggc	cggggacttg	cccttgcacg	ctccctgcgc	180
cctccagctc	gcccggggga	ccatagaagaa	gttctctcg	atgcccagt	cggagggcgg	240
cagcggcggc	ggagcggcgg	gtggggggc	tggggggcc	ggggccgggg	ccggctgcgg	300
ctccggcggc	tcgtccgtgg	gggtccgggt	gttcgcggtc	ggccgcacc	aggtcacccct	360
ggaagagtcg	ctggccgaag	tgatacagat	gctgcgggtt	caggaaccac	gtctttagta	420
ccgagttacca	ctgatttctga	gcgggcgaag	aagactaaga	agaaggtgct	agagaggtgg	480
attctccaca	gttttctctcg	tgctactca	cggttggaaatc	cgatgtgcat	tgaaggaaat	540
gtatgtcaat	aacatgccag	acctcaatgt	ttgtaaaagg	gaaattacaa	ttatgaaaga	600
gctatctgg	cacaaaaata	ttgtgggcta	tttgggctgt	gtgttaatt	caattagtga	660
taatgtatgg	gaagtcctta	tcttaatgg	atattgtcga	gctggacagg	tagtgaatca	720
aatgaataag	aagctacaga	cgggtttac	agaaccagaa	gtttacaga	tattctgtga	780
tacctgtgaa	gctgttgcaa	ggttgcata	gtgttaagact	ccaataattc	accgggatct	840
gaaggtagaa	aatattttgt	tgaatgatgg	tgggaactat	gtactttgtg	actttggcag	900
tgccactaat	aaatttctta	atcctaaaa	agatggagtt	aatgttagtag	aagaagaaat	960
taaaaagtat	acaactctgt	catacagagc	ccctgaaaatg	atcaaccttt	atggagggaa	1020
acccatcacc	accaaggctg	atatctggc	actgggatgt	ctactctata	aactttgtt	1080
cttcaacttt	cctttgggt	agagtcaggt	tgctatctgt	gatggcaact	tcaccatccc	1140
agacaattct	cgttactccc	gtaacataca	ttgcttaata	aggttcatgc	ttgaaccaga	1200
tccggAACAT	agacctgata	tattcaagt	gtcatatttt	gcatttaat	ttgccaaaaaa	1260
ggattgtcca	gtctccaaaca	tcaataattc	ttctatttcct	ttagctcttc	ctgaaccgat	1320
gactgttagt	gaagcagctg	ctagaaaaag	ccaaataaaaa	gccagaataa	cagataccat	1380
tggaccacaa	gaaacctcaa	ttgcaccaag	acaagagacca	aaggccaact	ctgctactac	1440
tgccactccc	agtgtgtcg	ccattcaaaag	ttcagcaaca	cctgttaaag	tccttgctcc	1500
ttgtgaattc	gtaaccata	gaccaaaaagg	ggcactaaga	cctggaaatg	gcccgtaaat	1560
tttattgggt	caggaccc	ctcagcagcc	gccacagcag	catagagtac	tccagcaact	1620
acagcaggaa	gattggagat	tacagcaact	ccattttacag	catcgtcatc	ctcaccagca	1680
gcagcagcag	cagcagcagc	aacagcaaca	gcagcagcag	caacagcaac	agcagcagca	1740
gcagcagcag	cagcagcagc	agcaccacca	ccaccacac	cacactactt	caagatgtt	1800
atatgcagca	gtatcaacat	ggcaacacag	cagcaacaga	tggttcaaca	acaattttta	1860
atgcattcgg	tatatacacc	acaaccttct	gcatcacagt	atcctacaaat	gatgcccag	1920
tatcagcagg	cttctttca	acagcagatg	ctagctcaac	atcagccgtc	tcaacaacag	1980
gcatcacctg	aatatcttac	ctcccctaa	gagttctcac	cagccttagt	ttcttactact	2040
tcatcacttc	cagctcagg	tggaaccata	atggactctt	cctatagtgc	caataggtca	2100
gttgctgata	aagaggccat	tgcaaatttc	acaaatcaga	agaacatcag	caatccacct	2160
gatatgtcg	ggtggaatcc	ttttggagag	gataatttct	ctaagttac	agaagaggaa	2220
ctattggaca	gagaatttga	ccttctaa	tcaagtttc	ctgaaaagaa	agctgaacat	2280
tcatctataa	atcaagaaaa	ttgcactgca	aaccctatca	agaacggtaa	aacaagtcca	2340
gcatctaaag	atcagcggac	tgaaaaagaaa	acctcagtag	aggttcaagt	gcaaaagggg	2400
aatgatgaat	ctgaaaagtga	tttgaatca	gatccccctt	ctccctaagag	cagtgaagag	2460
gaagagcaag	atgatgaaga	agttttcag	ggggaaacaag	gagattttaa	tgatgtatgt	2520
actgaaccag	aaaatctgg	tcataggcct	ctcctcatgg	attctgaaga	tgaggaagaa	2580
gaggagaaac	atagctctga	ttctgtattat	gagcaggcta	aagcaaagta	cagtgcacatg	2640
agetctgtct	acagagacag	atctggcagt	ggaccaaccc	aagatcttaa	tacaatactc	2700
ctcacccat	cccaattatc	ctctgatgtt	gcagtggaga	ctcccaaaca	ggagtttgat	2760
gtattingcg	ctgtccccc	cttgcagt	cgtgctcaac	agccccagca	agaaaagaat	2820
gaaaagaacc	tccctcaaca	caggtttcct	gctgcaggac	tggagcagga	ggaattttat	2880
gtattcacaa	aggcgcctt	tagcaagaag	gtaatgtac	aagaatgcca	tgcagtgggg	2940
cctgaggcac	atactatccc	tggttatccc	aaaagtgtag	atgtatttgg	ctccactcca	3000
tttcagccct	tcctcacatc	aacaagtaaa	agtgaaagca	atgaggacct	tttgggctt	3060
gtgccccttt	atgaaataac	ggggagccag	cagcaaaaaaa	gtcaaacagc	gcagcttaca	3120
gaaactgtcc	tctcgccaaa	ggcgcacaaa	gcaggatatg	tccaaaagta	atgggaagcg	3180
gcatcatggc	acgccaacta	gcacaaagaa	gactttgaag	cctacctato	gcactccaga	3240
gagggtctgc	aggcacaaaa	aagtggccg	cgagacttc	aaatgtacaa	tgaattttta	3300
accatctcg	actccaagg	gaacattagt	tttgcactga	ctgatggaa	agataggggg	3360
aatgtttac	aacctgagga	gagctgttg	gacccttcg	gtgccaagcc	cttccattct	3420
ccagacctgt	catggcaccc	tccacatcg	ggcctgagcg	acatccgtgc	tgatcacaat	3480
actgtctgc	caggcggccc	aagacaaaaat	tcaatcatg	ggtcatttcca	tagtgcagat	3540
gtattgaaaa	tgatgtgat	ttgtgcccgt	ccctttacag	aacttgggt	gcaaaagcatc	3600
actccacatc	agtcccaaca	gtccccacca	gtcgaattag	accatttgg	tgctgtccca	3660
tttccttcta	aacagtagat	acttctgtat	gattctcgcc	attaactcct	gtttcaaaaa	3720
agtgtgaaca	gttttatgaa	tttggaaagaa	aattttggtag	ctctttatag	cattcattct	3780
taaagatctag	tcaagaatagg	tgatttctaa	ataaaccaaa	tagaagaatg	aagtatctct	3840
acagggttagt	aacttggatcc	ctcttcagga	aaaaaggqqaq	ctaaatttgc	agctctaact	3900

gagggttct gctactgaca tcacaacaca gaaatgcaag tgggtactt ccagtgaaaag 3960
cacatggcac ctttcttaggt gtgtagccac tgagaaggga cagtaaaact gttattttt 4020
atatacagaat gtcattttt tgtgcataat cctaaaatta gggttatttc tacatacact 4080
agttacactt gtgaattttt ttaaggctc ctttaattt ccagacagtt aaaaacaatc 4140
tagttatctt aaagcattag aaagttatta tctggagagt gcagagatt cagtcatac 4200
acctttctcc acaaagcaga gccagaagta actgactatt gtgcctaaaa ctctgttca 4260
ttttaaaaaa caagtccat taaaatggaa tatctaata taagcatatg aaataatgt 4320
taattagctc aatttaacta ttccacaact tacatattcc aaaacaatgt tatacatgt 4380
aaatatataat aattttgtc agttaaaaaca aattaaaaaa atggactatc gtcgcacaga 4440
agcctagaac aaaaatatga agagaaaatat ctgacattt taaagaaaatt ataagaagaa 4500
aaaaagatac agaacagaaa acattcacta ctttagaaac actttatgca tggctctt 4560
ccccaaactt ttattgtat gcccctaata aagcagatta ttggaaaaat tggaggacaa 4620
gggttgtata aaaattttat tttatgaaga aatataatgttagt cggaaactga atttcaaga 4680
catttacaat gtgaaatcat gttgcattt acaattattt acaatgtact ttattagcaa cttcaccaaa 4740
tattcccaa gtcataagca acaattattt ttattaggtt ttgggggtg gagtagttt 4800
aataaagtgc acagaatggt gacacccaca aagcctata taaaggcagg attcatgcat 4860
cctgctgcaa gtacctctgc actaatatac cagatcttaa aatgcatata aggtggacta 4920
gcatacttaat tctgcttagt gattgtgtct ttactgaaaaaa gaaccaggct accaatttgc 4980
cttttttac accacaatc ctaattagaa tagagattac atatgtgaat taatgtgaat atttatgttagt cttcacc 4980
attttaatgtataatgtgc tgcgctatca aatataatgttagt ctttagaaat catttaatga 5040
aatgtattt acagaaaaggga gtagaaaactc ttatgttca ctttagaaatgtatctg gtctatgact 5100
ttttaaattaa ctctcttcga tctcaaagta ttatgttca ctttagaaatgtatctg gtctatgact 5100
ttatagtgcc ccaatgggt aagctattt gattaacattt tggaagttt tagaacagtt 5160
agcaaaatgt atgtactaa accacatattt atcaacttgc actctctttt attttataat 5220
tatgcttaat caaatataga ttgtggata tttttacga gtaattttat taggaatctc 5280
gaggcagacc aagcattaca ttattattt ccttatttca cagttctgaa cttggaaaaga 5340
tgccaaaggc aaatatgttt gcacccctt ctgtcttca ctttagaaatgtatctg gtctatgact 5400
ctgctaataatgc aaatgctcaa gtagatgttt ttttttttca ttttttttca ctttagaaatgtatctg gtctatgact 5400
ctttctttta aaagtgaaga gttgatgatt gggaaacat atgtaatca caatgttagca 5460
tttgtatcaa acaattttt ttaatgaaaaa gagctggact gcaccaatta cttgtctcg 5520
attgtatttag tccttggct ctgcttagacc ttttttttca gattctcagg ttgattaata 5580
gaggatgaac taatgtctcc ttcaatgttca aaaaacttta caaaatagat tcaagtgata 5640
ttcaatacac tgaataattt taaatgattt acacatagta aattcatgaa ctacagtagg 5700
attctgagga aacaactgac agcataaaat tctgttgagg tgcataatgttagt ctttagaaatgtatctg gtctatgact 5760
tttcttctt caagattgtt gctcagagaa tcatgtttagt catcatttag aaaaagggtt 5820
ggatagaaat gggagagattt ttttttttca ttttttttca ctttagaaatgtatctg gtctatgact 5880
tttataactt gcattttcat tcatacatccc aacatgtttagt acacatgat ttacttgctt 5940
cacacagctg atgctcaggat tattcccttgc ttatgttca ctttagaaatgtatctg gtctatgact 6000
atgtgaaatg gottaacaca gtacccggca aagatacagg attcaattgg gggttcaata 6060
atgggatgtt tcaattctgg ttaaggaag tagtagaggc atttcttaa ggagtataga 6120
gcaaaatataat atataatataat atatttgggg ccagaatcat ggtcaagggtg taggtcactc 6180
cctgtgttcc tttaggatgt agttataact tgagaattat gagaataaag cttccaaagat 6240
aagtaaatta ttatgaagct agcaaaaatc aataatgtttt caacatgtttagt accatttgct 6300
aataatgtt gttgattttt aataatcctt cacagactc aataaaagtt tggctctatt 6300
tcacgtcagt aaaatgttag tattaaaaag gaagaaaggt tattatataat gtaccactaa 6360
ctgctaagac acaaaaaattt catggtaaat ttgaggccaa agttgttct taacagcttt 6420
cggtgaaaaa tttaactgac tagaacattt taaaatgttca ttaatattat ttttttcc 6480
caatccctgt gtacgttgg ggtatagttt aatataatgttca ttaatattat ttttttcc 6480
actttcagtcttacccgtt tattttttca ttttttttca aacatgtttagt accatttgct 6540
gaaaatctaa ggtggagccc actcttctat ttgaggccaa agttgttct taacagcttt 6600
tacaagtctg ctactctgt tggtttattt taaaatgttca ttaatattat ttttttcc 6600
agaaggtaca agttgtattaa tattactgtt aatataatgttca ttaatattat ttttttcc 6660
tatattttaga atgtgcagta aacttttttca ttttttttca aataatgttca ttaatattat ttttttcc 6660
attttaggtc caattattga gttgacagtc tactgtgaga atgagatgac ttatgttca ttttttcc 6720
tgagaataacc ataaatgtatg aatagtttattt ttgagaactt ttttttttca aataatgttca ttttttcc 6780
atattaagat aaaaatataatgtt acacacatgc atgtcacatc ttttttttca aataatgttca ttttttcc 6840
tgaattttta aaaaatggaa ttgcaaccac aatcatatct aagagaacat ggttagatga taatgcaaaag 6900
tgagggttta caaaagctac taagagaata aggttagatga taatgcaaaag 6960
tggggtttattt ttttttttca ttttttttca aataatgttca ttttttcc 7020
tgactatgtctt ttttttttca ttttttttca aataatgttca ttttttcc 7080
ttaattgtctg gcaaacagct ttaagtgcac ttttttttca ttttttttca aataatgttca ttttttcc 7140
aacttgaatt ttctgaagcc tttttatgtac cactaagcaa ataaactttaa ctttttttca ttttttcc 7200
aagcaaaatttt acatctttat ttttttttca aacataacttgc ttttttttca ttttttcc 7260
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7320
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7380
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7440
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7500
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7560
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7620
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7680
ttttttttca aataatgttca ttttttttca aataatgttca ttttttcc 7740

ttcagtcctc aaatatacgct gggaaacaat tatgagatag actcagtctc cccctccac 7800
 ccctttccc ctgccatatac taattaagca ctaactgatt ttattacttt attgccttta 7860
 cactgcttat tcttttgac tgaattctgt ccctgattca ctgtttgtt tgaaatttaa 7920
 agttatttc ttactgtatt tatacatacct gtttaatct gttttcttta aatgcaataa 7980
 atcccaaatg gattgcatac tctttataat cagtg 8015

<210> 80

<211> 7945

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526214CB1

<400> 80

agccgggcag ctgcagcggg gccgcgggagc gggcgccggg gcccaggctg tgcgcttggg 60
 gagcgcggaa tgtgaggctt ggcgggcccgc agcacgctcg gacggggccag gggcgccgac 120
 ccctcgccggc cgccccggctg cgcgcggggc cggggacttg ccctgcacg ctccctgcgc 180
 cctccagctc gccggcggga ccatgaagaa gttctctcggt atgcccagaat cggagggcgg 240
 cagcggcggc ggagcggcgg gttggcggggc tggcggggcc ggggcccggg cccgctgcgg 300
 ctccggcggc tgcgtccgtgg gggtccgggt gttcgcgggtc ggcgcacc accgtcaccct 360
 ggaagagtcg ctggccgaag gtacgggcgc cggggagggc tcggacaggc aggtggattc 420
 tccacagttt tcctcgtgcg tactcacggg ggaatccgat gtgcattgaa gcaatgtat 480
 gtcaataaca tgccagaccc caatgtttgt aaaaggaaa ttacaattat gaaagagcta 540
 tctggtcaca aaaatattgt gggctatttg gactgtgctg ttaattcaat tagtgataat 600
 gtatggaaag tccttatctt aatggaatat tgcgcgtt gacaggtt gaaatcaatg 660
 aataagaagc tacagacggg ttttacagaa ccagaagtgt tacagatatt ctgtgatacc 720
 tgtgaagctg ttgcagggtt gcatcgtgt aagactccaa taattcaccg ggatctgaag 780
 gtagaaaata tttgctgaat gatggtggg actatgtact ttgtgactt ggcagtgc 840
 ctaataaaatt tcttaatcct caaaaagatg gaggtaatgt agtagaagaa gaaattaaaa 900
 agtatacaac tctgtcatac agagccccctg aaatgatcaa cctttatggg gggaaaccca 960
 tcaccaccaa ggctgatatac tgggcactgg gatgtctact ctataaactt tgtttcttca 1020
 ctcttccttt tggtgagatg caggttgcata tctgtatgg caacttcacc atcccagaca 1080
 attctcgta ctcggtaac atacattgtc taataagggtt catgctgaa ccagatccgg 1140
 aacatagacc tgatattt caagtgtcat attttgcatt taaatttgc aaaaaggatt 1200
 gtcagtcgc caacatcaat aattttcttca ttccttcagc tcttcctgaa ccgtactg 1260
 ctatgtggc agctgttagg aaaaagccaa taaaagccag aataacagat accattggac 1320
 caacagaaac ctcaatttgc ccaagacaaa gaccggggc caactctgtc actactgc 1380
 ctcccgatgt gtcgaccatt caaagttcag caacacctgt taaagtctt gtcctggg 1440
 aatttggtaa ccatagacca aaaggggcac taagacctgg aatggccct gaaattttat 1500
 tgggtcaggg acctcctcag cagccggccac agcagcatag agtactccag caactacagc 1560
 agggagattt gagattacag caactccatt tacagcatcg tcatttcac cagcagc 1620
 agcagcagca gcagcaacag caacagcgcg agcagcaaca gcaacagcag cagcagc 1680
 agcagcagca gcagcagcac caccaccacc accaccaccc tacttcacca tgcttatatg 1740
 cagcagtatc aacatggcaa cacagcagca acagatgctt caacaacaat ttttacatgca 1800
 ttcggtatat caaccacaac ttctgcatac acagtatccct acaatgatgc cgcagtatca 1860
 gcaggcttcc ttcaacacgc agatgttagc tcaacatcg ccgtctcaac aacaggcatc 1920
 acctgaatat ttacccccc ctcaagagg ttcaccagcc ttagttctt acacttcattc 1980
 acttccagct cagggtggaa ccataatggc ttcctctat agtgcataa ggtcagttgc 2040
 tgataaagag gcccatttgc aatttttttttca tcaagaagaaatc atcagcaatc cacctgatata 2100
 gtcagggtgg aatcccttttgg gagaggataa ttctctcaag ttaacagaag aggaactatt 2160
 ggacagagaa ttgcacccctc taagatcaag ttctcctgaa aagaaagctg aacatttcattc 2220
 tataaatcaa gaaaatggca ctgcacccca tatcaagaac ggtaaaacaa gtcaggcatc 2280
 taaagatcg cggactggaa agaaaacccctc agtacagggtt caagtgc aaaaaggaaatga 2340
 tgaatctgaa agtggattttgc aatcagatcc cccttcctt aagagcgtg aagagggaa 2400
 gcaagatgtt gaaagatgtt ttcagggggca acaaggatgtttaaagatgt gatgatactg 2460
 aaccagaaaaa tctgggtcat aggcccttcc tcattggattc tgaagatgt gaaagaaagg 2520
 agaaaacatag ctctgatttgc gattatggc aggctaaagg caaagtacag tgacatgagc 2580
 tctgtctaca gagacggatc tggcagggtt gccaacccca gatcttataa caatactcc 2640
 cacctcagcc caattatccct ctgatgttgc agtggagat cccaaacagg agtttgcgt 2700
 atttggcgct gtccttcctt ttgcagggtt gtcacacag ccccaacagg aaaagaatga 2760
 aaagaacctc ctcacacaca gtttccttc tgcaggactg gaggcaggagg aatttgtatgt 2820
 attcacaacaa ggcctttta gcaagaaggtaa gaatgtacaa gaatgcattc cagtggggcc 2880

tgaggcacat actatccctg gttatcccaa aagtgttagat gtatattggct ccactccatt 2940
tcagcccttc ctcacatcaa caagtaaaag taaaaagcaat gaggacctt ttgggcttgt 3000
gcccttgat gaaataacgg ggagccagca gaaaaaagtc aaacagcgca gcttacagaa 3060
actgtcctct cgccaaaggc gcacaaaagca ggatatgtcc aaaagtaatg ggaaggcgca 3120
tcatggcagc ccaaactagca caaagaagac tttgaagcct acctatcgca ctccagagag 3180
ggctcgagg cacaaaaaag tggccgccc agactctcaa agtagcaatg aatttttaac 3240
catctcagac tccaaggaga acattagtgt tgcactgact gatgggaaag atagggggaa 3300
tgtcttacaa cctgaggaga gcctgttggc ccccttcggt gccaagccct tccattctcc 3360
agacctgtca tggcacccctc cacatcaggg cctgagcgac atccgtgctg atcacaatac 3420
tgtcctgcca gggcgccaa gacaaaattc actacatggg tcattccata gtgcagatgt 3480
attgaaaatg gatgattttg gtgcctgccc ctttacagaa cttgtggtgc aaagcatcac 3540
tccacatcag tcccaacagt cccaaaccagt cgaattagac ccatttggtg ctgctccatt 3600
tccttctaaa cagtagatac ttctgtatggc ttctcggtcat taactcctgt ttcaaaaaag 3660
tgtgaacagt tttatgaatt taaaaagaaaa tttttagt ctttacatgtca ttcattctta 3720
aagatcagtc agaataaggta atttctaaat aaaccaaaaata gaagaatgaa gtatctcac 3780
aggtagtaa ctcgattcctt ctccaggaga aaaggagct aaattgcaag ctctaactaa 3840
gggtttctgc tactgacatc acaacacaga aatgcaagt tggtacttcc agtgaagca 3900
catggcacct ttcttaggtgt gtagccactg agaagggaca gtgaaactgt tatttttgat 3960
atcagaatgt cattttttagt tgcataatccc tttttagt cttttagtca catacactag 4020
ttacacttgt gaattttttt taaggctctt ttaatttcc agacagttaa aaacaatcta 4080
gttatcttaa agcatttagaa agttattatc tggagagtgcc agagatttca gtccatcac 4140
cttctccac aaagcagagc cagaagtaac tctaatttttcc agatattgtaa ataatgtgt 4200
tttaaaaaaca agtgcattttaa aatggaata ttagctcaa tttaactatt ccacaactta 4260
atataatataa ttttgtcag taaaaacaaa catattccaa aacaatgtta tacatgataa 4320
cctagaacaa aaatatgaag agaaaatatct tttttttttttt tttttttttttttt 4380
aaagatacag aacagaaaaac attctact tttttttttttttt tttttttttttttt 4440
ccaaactttt attgtgtatgg cccttaataaa ttagaaacac tttatgcatttgc 4500
gttgtataaa aatttttattt tatgaagaaaa tttttttttttttt tttttttttttttt 4560
tttacaatgt gaaaatcatgt tgcatttaac tttttttttttttt tttttttttttttt 4620
ttccccaaatg cataagcaac aattttttt ttagaaacac tttatgcatttgc 4680
taaagtgcac agaatggtga caccacaaa tttttttttttttt tttttttttttttt 4740
tgctgaagt acctctgcac taatatacca gccttatata aaggcaggat tcatgcatttgc 4800
atcttaatttgc tgcattttttttttttt tttttttttttttt tttttttttttttt 4860
tttttttacac cacaatccct aatttagaaac gatcctaaaaa tgcatataag gtggacttgc 4920
gagattacat atgtgaatta atgtgaatat tttttttttttttt tttttttttttttt 4980
tttaagatat aattgtgtctt cgctatcaga tttttttttttttt tttttttttttttt 5040
tgctatttttac agaaaaggagt agaaaactcat ttaacattttgc gaaattttctttaa 5100
taaattaact ctcttcgatc tcaaagtata gatcctaaaaa tgcatataag gtggacttgc 5160
atagtgcctt aatgggataaa gctattgcct tttttttttttttt tttttttttttttt 5220
aaagtatatg taactaaagc acatattgtc tttttttttttttt tttttttttttttt 5280
ctaaatcaat atagattttgt ggataggaa gttttttttttttt tttttttttttttt 5340
agaccaagca ttacatttttattttagatgtc tttttttttttttt tttttttttttttt 5400
aaggcaataa tttttttttttttt tttttttttttttt tttttttttttttt 5460
aatgcaatgt ctcaagtaga tttttttttttttt tttttttttttttt tttttttttttttt 5520
ttttttttttttttt tttttttttttttt tttttttttttttt tttttttttttttt 5580
ttttttttttttttt tttttttttttttt tttttttttttttt tttttttttttttt 5640
atcaaaacaaat tttttttttttttt tttttttttttttt tttttttttttttt 5700
atttagtcctt ggtctctgt agacccatgt tttttttttttttt tttttttttttttt 5760
tgaactaatg totccttcag atgtaaaacat tttttttttttttt tttttttttttttt 5820
tacactgaat aattttttaaat gatttgcata tttttttttttttt tttttttttttttt 5880
gaggaaacaa ctgacagcat aaaatattttt tttttttttttttt tttttttttttttt 5940
tctttcaaga tttttttttttttt tttttttttttttt tttttttttttttt 6000
gaaatggaga gattccctttt tttttttttttttt tttttttttttttt 6060
actttgcatt ttcattttttttttttt tttttttttttttt tttttttttttttt 6120
agctgtatgtc caggtttttcccttgc tttttttttttttt tttttttttttttt 6180
aaagtgccta acacagtacc tggcacacag tttttttttttttt tttttttttttttt 6240
atggttcaat tttttttttttttt tttttttttttttt tttttttttttttt 6300
tatataatataa tttttttttttttt tttttttttttttt tttttttttttttt 6360
gcttcttttag gatgtatgtt tttttttttttttt tttttttttttttt 6420
aattttttttttttt tttttttttttttt tttttttttttttt 6480
tgcttctttga tttttttttttttt tttttttttttttt tttttttttttttt 6540
tcagtaaaat gttatgtttaaaaagatcag tttttttttttttt tttttttttttttt 6600
aagacacaaaaa aattgtcatgg taagttataat tttttttttttttt 6660
gaaaattttaa ctgacttagaa cattttttttttttt tttttttttttttt 6720

cctgtgtacg tgttgggtat agttacgaca ttatccggat ttgcaaata tag acacaactt 6780
 cagtcttacc ctgtttattt ttaagagt atagactgtt gtcctcttgc tggggaaaa 6840
 tctaagggtgg agcccactct tctatgctga agttcaccag gcagagcagt tttcttacaa 6900
 gtcagctact ctgcttgggtt tatttttaggt tttttactt cacgtaagca ctgttagaa 6960
 gtacaagtgt attaatatca ctatgtttga ggccttggg tacatttgg tttatataat 7020
 tttagaatgtg cagtaaactt ttttctcatt ttttttctt ttttagcaa ac ttgttatttt 7080
 agtccaattt attgagttga cagtctactg tgagaatgag atgacatatac tactgtgaga 7140
 ataccataaa ttagaaatag tttatattttag aactttata ctcagttgtt ttttatataat 7200
 taagataaaa atatgtacac acatgcatgt cacatctctc tactgtggag ttaatgtgaa 7260
 tttttaaaaa atggaatttgc aaccacaatc atatctaaga gaacattcac tccttagttag 7320
 ggtttacaaa agtactaag agaataaagg agatgataat gcaaagggtc atgatttggg 7380
 gtttattttt ttttattttt aaatttatac tgctactttt gaaagaattt gttttatgtac 7440
 tatgctctt ttgtgattga aaagtcatct aatagaagct gtatagaagc tactttttaa 7500
 ttgctggcaa acagctttaa gtgcactttc tttgattaca cttccattt ttgtttaaact 7560
 tgaattttctt gaagcctttt atgttaccat aagcaataa ctttaaccc taaataaagc 7620
 aaatttacat ctttattttagt tttctacttg ttacaaaaca tacttgctaa agtaacttca 7680
 gtcctcaaat atagctgggaa aacaattatg agatagactc agtctccccccc tcccacccct 7740
 ttcccctgc catatctaata taagcactaa ctgattttat tactttatttgc ctttacact 7800
 gcttatttctt ttgactgaa ttctgtccct gatttactgt ttgttgaa atttaaagg 7860
 attttcttac ttttattttagt atacctgttt taatctgttt tctttaatg caataaaatcc 7920
 caaatggatt gcatattctt tataa 7945

<210> 81
 <211> 3149
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526228CB1

<400> 81

ctcgcggtat catccgggtgc tgaggccctg taataaagggt ctcgcgaaat ttgttctaga 60
 ggtccaagggtt gcttcttagc ttactccacc ccaccccccac cctgtccctc cttttcttcc 120
 caagtccacaa aatttccccc tcccttaccc cggagtttac ggccttccctc ctgtttccga 180
 tttagccccggg gaaccggaaag tgaagtgggc gggccgggtc ggccggaaaac gcagccggagc 240
 cagagccggaa cacggctgtg gccgctggct ctaccccccgc cacggatcgc cgggttagtag 300
 gactgcgcgg ctccaggctg agggtcggc cggaggccggg tgggcgggg ttcacccgg 360
 attgtccggg tggcaccgtt cccggcccca cggggccggc cgagggtatca tgcgttacagc 420
 ctctggccgc tcctccctt cctcgcttcc ggcgggttag atgatcgaa ccccttccca 480
 ggtcctcaac tttgaagaga tcgactacaa ggagatcgag gtggaaagggtt ttgttggaa 540
 aggagccttt ggagttgtt gcaaagctaa gtggagagca aaagatgtt ctattaaaca 600
 aatagaaaagt gaatctgaga gggaaagcggtt tattttagag ctccggcagt tatccctgtt 660
 gaaccatccct aatattgtaa agctttatgg agcctgtttt aatccagtgt gtcttgcgtat 720
 ggaatatgctt gaagggggctt ctttatataa tttttgtgcc tttcttgc agtgcgtcat 780
 ggtgctgaac cattgccata ttatactgtt gcccacgc gtagttgtt tttacagtgt 840
 tcccaaggag tggcttatct tcacagcatg caacccaaag cgctaattca cagggacctt 900
 aaaccaccaa acttactgtt ggttgcaggg gggacagttc taaaatttgc tgattttgtt 960
 acagccctgtt acattcagac acacatgacc aataacaagg ggagtgcgtc ttggatggca 1020
 cctgaagttt ttgaaggtag taattacagt gaaaatgtt acgtcttcag ctggggattt 1080
 attctttggg aagtgataac gcgtcgaaaa ccctttgtat gagattgtt gcccagctt 1140
 ccgaatcatgt tggctgttcc ataatggtagt tcgaccacca ctgataaaaa atttacctaa 1200
 gcccatttagg agcctgtatca ctcgttgggt gtcataagat cttcccgac gcccattcaat 1260
 ggagggaaattt gtgaaaataa tgactcactt gatgcggaga aatatttgc tttttcttca 1320
 agactatctt gactccatgt taagcttagat tcttagtact ttccaggagc agatgagcca 1380
 ttacagtatc ttgtcgtat tttagatggaa ggacagagca actctggccac cagtagcaggc 1440
 tcattcatgg acattgtttc tacaatatacg agtacaaaaa gtgacactaa tatggagcaa 1500
 gttcttgcca caaatgatac tattaaagcgc tttagatcaa aattttgtt gaaatcaggca 1560
 aagcaacaga gtgaatctgg acgtttaacgc ttggggagcc tccctggga gcagtgtgga 1620
 gagcttgcggc ccaacctctg agggcaagag gatgagtgtt gacatgtctg aatataagaac 1680
 taggatcgcc gcaaccacag gcaacggaca gccaagacgt agatccatcc aagacttgc 1740
 tggatcgcc gcaaccacaa gcaaccacaa gccaacccatc aatccatcc aatccatcc 1920

tcaccaacta cagcctctag caccgtcccc aaactccaaa gaatctatgg cagtgttga 1980
 acagcattgt aaaatggcac aagaatatat gaaagttcaa acagaaaattt cattgttatt 2040
 acagagaaaag caagaactag ttgcagaact ggaccaggat gaaaaggacc agcaaaatac 2100
 atctcgccctg gtacaggaac ataaaaagct ttttagatgaa aacaaaagcc tttctactta 2160
 ctaccagcaa tgcaaaaaac aactagaggt catcagaagt cagcagcaga aacgacaagg 2220
 cacttcatga ttctctggga ccgttacatt ttgaaaatatg caaagaaaaga cttttttta 2280
 aggaaaaggaa aaccttataa tgacgattca tgagtgttag ctttttggcg tttctgaat 2340
 gccaactgccc tatatttgct gcattttttt cattgtttag tttcctttc tcatgggtga 2400
 catacaattt tactgtttca ttgcataaca tggtagcatc tgtgacttga atgagcagca 2460
 ctttgcact tcaaaaacaga tgcagtgaac tggctgtta tatgcattgtc cattgtgtga 2520
 aggctagcc aacagaacag gaggtatcaa actagctgtc atgtgcaaac agcgtccatt 2580
 ttttcatatt agaggtggaa cctcaagaat gactttattc ttgtatctca tctcaaaaata 2640
 ttaataattt ttttccaaa agatggtata taccaggta aagacagggt attataaaatt 2700
 tagagtgatt ggtggatata tacggaaata cggAACCTT aggatagtt ccgtgttaagg 2760
 gctttgatgc cagcatcctt ggatcagtag tgaactcagt tccatccgt aaatatgtaa 2820
 agataagcaa gatctaagaaa gttatcaaaa ctattttta aaatgtcaaa gcagctccctg 2880
 tagccagaga tcacaggctc tccctgtgaa actttggttt ctttctaaa atgtgtgtgg 2940
 ttttcagcgc tcaactcctg tcttcaaatg gtagtaagtt ctacttctac ttctgtcatt 3000
 cagaacattt tatgtcaaat gatgtaatgc agaaatttctt gtgcattttt gtaactgaag 3060
 gaagctttt agatttattt ttgttttaa taaaattcag attcctattc taaaactggta 3120
 cataaaaagtgtgaatgact tgtatcagc 3149

<210> 82

<211> 3617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526246CB1

<400> 82

taagatggcg gacctggagg cgggtgtggc cgacgtgagc tacctgatgg ccatggagaa 60
 gagcaaggcc acgccccggccg cgccgcgcagg caagaagata ctgctgcccc agcccagcat 120
 ccgcagtgtc atgcagaagt acctggagga cggggcgcgg gtgacccctt gagaagatctt 180
 ttcccagaag ctggggtacc tgcttcccg agacttctgc ctgaaccacc tggaggaggc 240
 caggccctt gttggaaattct atgaggagat caagaagttc gagaagctgg agacggagga 300
 ggagcgtgtg gccccgcagcc gggagatctt cgactcatac atcatgaagg agctgctggc 360
 ctgctcgcatt cccttctcgca agatgcac tgacatgtc caaggccacc tggggaaagaa 420
 gcaaggcttcc cggatctcttcc cccatcatac catcgaagag atttgcataa acctccggagg 480
 ggacgtgttc cagaaattca tttagagcga taagttcaca cgggtttggcc agtggaaagaa 540
 tttggagctc aacatccacg tgagtggct tgggtggggc atggaaagcc acgcaccctg 600
 ctgctcctct cccggggagct gggcctgtgg ctggctgggg agggggaggt cagggatgt 660
 ctgtccttta gccccccaggc ccgtggctat ggggttcagg gcccggatcc cagcatgggg 720
 agccggagc aggttaaatat gtggcaagga tggccaggac atgggtatgg ggaccctggc 780
 atggggccag cccctgtgc ccaggtgcct ctggcccagg gctggcaga ggcagcctgt 840
 ggtgaccgc gctgtcgctg cccctcaagct gaccatgaat gacttcagcg tgcatcgcat 900
 cattggcgcc gggggcttgc gcgaggctta tgggtggccgg aaggctgaca caggcaagat 960
 gtacgcccatt aagtgcctgg acaaaaagcg catcaagatg aaggcccccc agaccctggc 1020
 cctgaacgag cgcatcatgc tctcgctcgat cggacttgg gactgcccatt tcattgtctg 1080
 catgtcatac gcgttccaca cggccagacaa gctcagctt atcctggacc tcattgaacgg 1140
 tggggacctg cactaccacc tctcccagca cggggcttgc tcagaggctg acatgcgtt 1200
 ctatgcggcc gagatcatcc tgggccttggc gcacatgcac aaccgcctcg tggcttaccg 1260
 ggacctgaag gggcaccac gggtacatgg ctccggaggt cctgcagaag ggcgtggcct 1320
 acgacagcag tgccgactgg ttctctctgg ggtgcattgtc cttaagttt ctgcgggggc 1380
 acagcccccctt ccggcagcac aagaccaaag acaagcatga gatgcaccgc atgacgctga 1440
 cgtatggccgt ggagctgccc gactcccttcc ccccttgcact acgctccctg ctggagggg 1500
 tgctgcagag ggatgtcaac cggagatgg gctgccttggc cggaggggct caggagggtga 1560
 aagagagccc cttttccgc tccctggact ggcagatggt cttcttgcag aagtaccctc 1620
 ccccgctgat ccccccacga gggggaggtga acgcggccga cgccttcgac attggctct 1680
 tggatgagga ggacacaaaaa ggaatcaagt tactggacag tgatcaggag ctctaccgca 1740
 acttccccctt caccatctcg gaggcggtggc agcaggaggt ggcagagact gtcttcgaca 1800
 ccatcaacgc tgagacagac cggctggagg ctgcagaa agccaagaac aagcagctgg 1860
 gccatgagga agactacgccc ctggcaagg actgcattcat gcatggctac atgtccaaga 1920

ggggcaaccc	cttcctgacc	cagtggcagc	ggcggtactt	ctacaccttgc	cccaaccgc	1980
tcgagtggcg	gggcgagggc	gaggccccgc	agagcctgct	gaccatggag	gagatccagt	2040
cggtgagga	gacgcagatc	aaggagcgca	agtgcctgct	cctcaagatc	cgcgggg	2100
aacagttcat	tttgcagtgc	gatacgacc	ctgagcttgt	gcagtggaa	aaggagctgc	2160
gcgacgccta	ccgcgaggcc	cagcagctgg	tgcagcgggt	gcccaagatg	aagaacaagc	2220
cgcgctcgcc	cgtgggtggag	ctgagcaagg	tgccgcttgt	ccagcgcggc	agtgcacacg	2280
gcctctgacc	cggccacccg	cctttataa	acctctaatt	tattttgtcg	aatttttatt	2340
atttggtttc	ccgccaagcg	gaaaagggtt	tatttgttaa	ttattgtat	ttcccgtggc	2400
cccagcctgg	cccgagctccc	ccgggagggg	cccgcttgc	tcggctctg	ctgcaccaac	2460
ccagccctg	cccgccgccc	tctgtcctga	cttcaggggc	tgcccgcctc	cagtgttcc	2520
ctgtggggga	agagcacagc	cctcccgccc	cttccccgag	ggatgatgccc	acaccaagct	2580
gtgccaccct	gggtctgt	ggctgcactc	tgtgccc	ggcactgctg	ggtgccccat	2640
ccccccctcac	cagggcaggc	acagcacagg	gatccgactt	gaattttccc	actgcacccc	2700
ctccctgtgc	agaggggcag	gcccctgcact	gtccctgtcc	acagtgttgg	cgagaggagg	2760
ggccccgttgc	ctccctggcc	ctcaaggcct	cccacagtga	ctcgggctcc	tgtgcctta	2820
ttcaggaaaa	gcctctgtgt	cactggctgc	ctccactccc	acttccctga	cactgcgggg	2880
cttggctgag	agagtgccat	tggcagcagg	tgtgcttacc	ctccctgtgt	tcccccttgc	2940
cccccaaaaa	cagcacccgg	gctcaggagc	cacagcaagg	cacctgcagg	ttggggccata	3000
ctggccctgc	ctggcctgag	gtctcgtgt	tgctgggctg	ggtggccccc	cctcgcac	3060
cgcatggccc	ctcgtgccag	tgcgctgc	tgtgtgtgt	cgcgccttc	cccccccccgg	3120
gctgggttgg	cgcacccctcc	cctccgtct	actcattccc	cggggcgtt	cttggcgat	3180
tttgaatgt	gattttaaag	agtaaaaat	gagactatgc	gttttataa	aaaatggtgc	3240
ctgattccgc	tgctctcagac	tcttttgta	cctggtgacc	ccttttcagc	ttctgttgg	3300
ctggggcctg	atggggaggg	tctcggttgt	accaggttc	ctccaccgc	atggcttcca	3360
agggtggctg	ctcggggccca	ggccatctc	cagggtgggt	gaggcagtgg	gtcccacttc	3420
ccctccctacc	cctcccaagct	gacagtctc	tccacctagt	ggctgtccag	tgcccattcc	3480
tcacctttc	ccggggaggg	gagagcagct	tctgccactt	cccaggtaa	caggaggagg	3540
tgccaaacagt	gttaggcctg	gcacagtgtc	tgggctgact	gggaccgtct	caggcccaca	3600
gaacaccct	gcacagc					3617

<210> 83
<211> 1955
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7526258CB1

ccaggacccc ttccctgccc acccaccaag gtcctgccc cagggccagg ctgcctctag 1500
 cgccactact cgagaccctg cccagaggt aaggaggcag ggtggggag ccctggccac 1560
 cttgcccggc atgcctgag ccacgtccct cccctgcag ggtggctg gtgttgcggg 1620
 aacgctggca tttctgccc gacggccggg tgctgctggg ctcgagggcc ctgagggagc 1680
 ggcacctagg cctgatggc taccagctcc tgccgctacc cttcgaggaa ctggagtc 1740
 agagaggcct gccccagctc aagagctacc tgagggcagaa gtcaggcc ctggggctgc 1800
 gctgggggccc tgaagggggc tgaggggtt atgtgggtt caggatggcc ccccatggg 1860
 gggtggatga tttgactt gttccctgt gtttgcattt ctcattaaag ttcccttc 1920
 tccccgttgc gaatctcagt tttggacgg ggac 1955

<210> 84

<211> 2937

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7526311CB1

<400> 84

gcgcaggggg cgggctccg gctaggaggg tggggccgc gccggtgaca ggcgatcccc 60
 gcccctgctg cccgcacgt ccctcacgt ccactcggca gaggcgcggg gaaacctggc 120
 gtactggctg tggctctct agcgggactc ggcattggc tggcgcggct gttcgcgg 180
 gccgccttg cccggccggg cccggggctg cgcgcggccg gttcagccg cagttcagc 240
 tcggactcgg gtcaggccc ggcgtccgag cgccgcgttc cggggccagg ggacttctac 300
 ggcgccttc cggcgcccc gctctccat aagcgttcc tggacttcgg atcagtgaat 360
 gtttgcattt agacccatt tatgtttctg cggcaagagt tgcctgtcag actggcaat 420
 ataatgaaag aaataagtct cttccagat aatcttcata ggacaccatc cgttcaattg 480
 gtacaaagct ggtatatacc gagtcttcag gagttctt attttaagga caaaaagtgt 540
 gaggatgcta aagctattt taaaaggcct agaagaacat gtttgcagg ctctagttt 600
 tgcgtatgg cctgcaagat gatctttt gtttgcattt aaaggcaag gaagtccatc 660
 tcatcgaaaa cacatggaa gcataaatcc aaactgcaat gtacttgaag ttattaaaga 720
 tggctatgaa aatgcttaggc gtctgtgtt tttgtattt attaactctc cggaaactaga 780
 acttgaagaa ctaaatgcaa aatcaccagg acagccaata caagtgttt atgtaccatc 840
 ccatctctat cacatgggtt ttgaactttt caagaatgca atgagagcca ctatggaaaca 900
 ccatgccaac agagggtttt acccccctat tcaagttcat gtcacgttgg gtaatgagga 960
 tttgactgtt aagatgagtg accgaggagg tggcgttctt ttgagggaaa ttgacagact 1020
 ttcaactac atgtattcaa ctgcaccaag acctcgtt gggcgttggc gggcgttgg 1080
 tctggctgtt tttgttattt gattggccat atcacgttt tacgcacaat acttccaagg 1140
 agacctgaaat ctgttccca tagagggtt cgggacagat gcaatgttccat acattaaggc 1200
 tctgtcaaca gactcaatag aaagactccc agtgtataac aaagctgtct ggaagcattt 1260
 caacaccaac caccggctg atgactgggtt cgtccccagc agagaaccca aagacatgac 1320
 gacgttccgc agtgcctaga cacacttggg acatcgaaaa atccaaatgt ggctttgtt 1380
 ttaaaatttgg aagtgtggcc cagagttgtt cagaatttgg gcaaggttggc gcaaggttgg 1440
 gcaagatctg tcatcagctg gcaagtcctt gagactgtt cttttttttt cttttttttt 1500
 agttatccctt caacatcttca taaggtggca gggaaataata ttggaaataaa cattttaaag 1560
 taaaattttt aaagttaaa gaagagttt gcccactttaa cagggggactt ttgtctggaa 1620
 aatacactga gttgaaacac ttcatcctt gaggattat ataagatgaa cagttgttat 1680
 aaatgtgttag attagaggga tttttttttt tttttttttt tttttttttt tttttttttt 1740
 caagatctg attcagagga ggcattttttt gcccagagct gtttagctaa tctgacccaaa 1800
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1860
 atagaacatgt ttaatgagta atttatatta gttcgatgtt tttttttttt tttttttttt 1920
 attacagttt tcttataatg ttgaaatgtt tttttttttt tttttttttt tttttttttt 1980
 cctaaatgaa acatttttac aacatttttgc tttttttttt tttttttttt tttttttttt 2040
 aagaaaattt aaacttttttcc tttttttttt tttttttttt tttttttttt tttttttttt 2100
 aaattatctt cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2160
 aatggacaga atattacata caaaaatattt ctgggagacg tttttttttt tttttttttt 2220
 atcattgtgc cacctgaaag gttttttttt tttttttttt tttttttttt tttttttttt 2280
 aatgtacac agtgtatgtt tttttttttt tttttttttt tttttttttt tttttttttt 2340
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2400
 attctgtctt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2460
 actttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2520
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2580
 aataaactga gtcaattttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2640

ttccaccatc aaggctcaac attttgtaag catccaaaaa attggttaatt agggggcttg 2700
cactaaattt cactatcttc agtagagagg aactgttgg aacttagatt tccaaatgtgt 2760
atattctaattt ggagaaaagca agaggttagag tttgtatgtt tgacttacct tagatttta 2820
tttccatatac atactgcaaa tgattgactt gttgcataaaa tgaagatctt ctgttgtgtg 2880
cttttcaaaac actgtaaata aatttgaat ttgaataact ttccacagta taactgt 2937

<210> 85
<211> 6122
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 7526315CB1

tatttgatca taaaaagcct cttggaaattt gaagcgtgac gtgtttctaa tgcccccttga 2940
 gaggtgaaaa ataccacata atgatcagta tgctgtgcca gcttcatttggggagaaata 3000
 actagtagaa agttctgggt gtgaggtgta cagcagtcta ggtggcatag tgatgaagaa 3060
 agggatcaga gtctgactgt cactcagaat cctgggctca gttgcttgc aaccctggga 3120
 aaattgtttt atctttgtc gtctgttgc tgatcttcag cgtggaaata ataacagtac 3180
 ctacttgaaa ggatcattgt gcggattaaaa agaaataata tatgtaaagc actttaacac 3240
 agcaccaggc ccacggaaag tggctaatgt tagctactat gaatggtgc agtgaagaca 3300
 ctgaaaaata agtgattca gtaaccttct ggaaagctat cagttcaaa taatattttc 3360
 tctgttagtat gagatgaaat taaaagtgg tagctttcag gaaagataaa gagaacatgc 3420
 ttagaatgt a gctaaacag atttttctg ttgctcttgc aaaactatga gccctggcca 3480
 gcttaacctg gtctgagggtg agactaaaca caaaaacagt agataaaatct ctccctaaaa 3540
 gatggattcc cccacatacc catgctacta gttctctgt ctattcacac atatgtacaa 3600
 atacatgaac acagctgtc tggctcaga catagagaag tactacctga cttgagtcaa 3660
 tcaccccaag aagaaagct tggagtagag cagaagggag ggcttgggac tcctgtctt 3720
 ccacatgccc ctgggtgcgtc gtggtcagcc acctgaagag agagccaaata gccatgggg 3780
 ttacaaggca aagatagtca ttcatccaa cacatctca tagaacttcc ttctctgtgc 3840
 cagacaactg ttctggaga tagcttagt aaaaatcttgc cactcacagg agcttaacat 3900
 gccagtgagt gaagatcgat gataaataaa gcaaatgcata catatgttca catttgataa 3960
 gtatatgcca aaaaatgaag ccgggaagga ggacaaggcc catgggtgg ttttgaggtt 4020
 tttaaagtgt ggtcaggaaa ggccccactg ataaggtAAC atttgagccaa gttctgaaaa 4080
 ggcagggggaa tctttggggc taaacttcggg atccctgcac ttatgttca aatgtaaacc 4140
 tggagtctca tttaagaatg atcagcaata cgtttagaaac atatgaactg aatgaaatgg 4200
 acattttttca ttaattttatg tataaattcca tatgattata cataaaatgttca tgatgcatta 4260
 ataaaaagcag ccaaataggg ccaaagagaa aaataacagg atctgtact ggacctaact 4320
 ttatcattaa ttaggttataa ttttcctcat ttctttactg ctgcattttt cctcaccagg 4380
 attcaggaga tggtcatagc tcattactct accaccaaga acctaataagg aatttagaata 4440
 cagcagaatt ggcctcaggta aagagcttaa aattgttctc ctcgtagaac tggactattt 4500
 atcattacca cgtgacgttg gctctattac tttctgttcc caatgtcctt ctatgtggttt 4560
 gaaaatgtta aaacatccaa aaaaaaaca cccggtagca ttgtcccttc cccactgaca 4620
 aacttatcaa atccagaagc tttagagttt cgtctctaat tatttttctc ctgaacaaaa 4680
 ttacccaagt caaaacaaaa tggatgttttgaattacggc agcataacgac ctgaattttt 4740
 ttagtttcgt ggcttattct taaatcacca tttccctaaa aatggtttct ttctccttag 4800
 aaatgtcggg ggcacttgc tgaaaacagcc aaatgcacca gggcaggtca ctttcccatt 4860
 acactgtttc cacaattaaa aaaaataaaaaaa aaagaaaaaa aactcattga gatagctaca 4920
 gttctatagg ttaattttaa gcctcctttt tctactcatt ttgttgaagca aatttacatt 4980
 ttacttattt acataaccag tgaaaagacg ttgaaaggct acagctcact gttttgggtt 5040
 ctctggaaat gttgggggtg gtttttttaac cagtgattttt taacgtgcag tgaattttgtt 5100
 agacttttaa acaccagctt aggttagtcaa acttgatccc cattaaaaat caaggaatta 5160
 ggggtcgggg ggggtttag gaggtagtca gaatgaccc ccagaattac tggcgttaca 5220
 acttttattt tcaagttttt cattgggaa ggtttagtgc tttatgttcaag acatgtttaa 5280
 aacttattct gagttttaata ttaatacttt aaaaattttt tttacttgc ttatcgccagc 5340
 cttttggaaag tagcagagtt tcatcataacc acatataaa atcaggccacc ttttgcgtt tttttaatgg ttaagcatcg 5400
 ccagacataaa aatcttattc ttcctctcg attgttagcat agcctgacag ctcttagatac 5460
 agcatttcta tggatgggggg tgatgatccatc tcaaggaaatc agcatttctgg catgtgatgg 5520
 ctcagactcc acctttgtttt gcactctgtt gcctgtgagg tttacttcaa aacttagagtt ccaaggacactt acattaatta ttttatattt ttttgcgttaca 5580
 agtataatctt ttaatgtcag atatgataca ctgcacatattt ttttttttgc ttttttttgc 5640
 ttttgcgttca aataatagaa aatatttata ttcttttgcattt ttttgcgttaca 5700
 attatcattt ttttttttgcattt ttaacaaaaa ctttttctca ttttgcgttaca 5760
 ttcttgagccaa gtcctatgcc aatatcttgc tataatgtttt ttttgcgttaca 5820
 ctcttgcgttgc ttttgcgttaca 5880
 acaaaagtccaa cagtgttattc agaaatccaa gttgggtgtca tacatttcat ttttgcgttaca 5940
 acttttctt gctttcctt gttctaaagac tccattttgc aataaacgtt ttgacagccaa 6000
 aa 6120
 aa 6122

<210> 86
 <211> 1914
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 7526442CB1

<400> 86

gctgtcatcg ttccgtggc cctgctgccc gcacgctctc ggccgcattgc 60
gggattaagc ttgctgctgc gtgacagcgg agggcttagga aaaggcgcag tggggcccccgg 120
agctgtcacc cctgactcga cgcagcttcc gttctcctgg tgacgtcgcc tacaggaacc 180
gccccagtgg tcagctgccc cgctgttgc agccaacagc gtgcgagctc agatcagcgt 240
gggggtggagg agaagtggag ttttggaaagtt caggggcaca ggggcacagg cccacgactg 300
cagcgggatg gaccagtact gcacatcctggg ccgcacatcggg gagggcgcggcc acggcattcg 360
cttcaaggcc aagcacgtgg agactggcga gatagttgcc ctcaagaagg tggccctaag 420
gcgggtggaa gacggcttcc ctaaccaggc cctgcgggag attaaggctc tgcaggagat 480
ggaggacaat cagtagtgcg tacaactgaa ggctgtgttc ccacacggtg gaggctttgt 540
gctggcctt gagttcatgc tgctcgatct ggccgagggtg gtgcgcattg cccagaggcc 600
actagcccaag gcacagggtca agagctaccc gcagatgctg ctcaagggtg tgccttctg 660
ccatgccaac aacattgtac atcgggaccc gcccccaagg cccatccagg gccccccac 720
atccatgact tccacgtggc ccggcctt gaggagtcgc tggtgaaccc agagctgatt 780
cgccccctca tcctgggggg gtgagaagg tggccctggc cctgtcgct gtcctcagg 840
accactcagt ccacctgttc ctctgccacc tgccctggctt caccctccaa ggccctcccc 900
tggccacagt gggcccacac cacaccctgc cccttagccc ttgcgagggt tggctcgag 960
gcagaggtca tggtcccagc caagagtatg agaacatcca gtcgagcaga ggagattcat 1020
ggcctgtgct cggtgaggcct taccttctgt gtgtactga cgtaccatc aggacagtga 1080
gctctgctgc cagtcaaggc ctgcataatgc agaatgacga tgccctgcctt ggtgctgctt 1140
ccccgagtgc tgccctctgg tcaaggagaa gtgcagagag taagggttcc ttatgttgg 1200
aactcaagtgc gaagggaaat ttgggttggt tttattctca gagccattaa acactagttc 1260
agtagtgcgat atatagattc taaaaacccctc aggtggctct gccttatgtc tggctctcc 1320
tcatttctct caagggaaat ggctaaagggtg gcattgtctc atggctctcg tttttgggg 1380
catggggagg gtagcaccag gcataccac ttttgcctg agggactct gtgtacttca 1440
catcaactgag cactcattt aagtgaggag agacagaagt ctaggcccag ggtatggctcc 1500
agttggggat ccagcaggag accctctgca catgaggctg gtttaccaac atctactccc 1560
tcaggatgag cgtgagccag aagcagctgt gtatataagg aaacaagcgt tcctggaaatt 1620
aatttataaaa tttataaaaat cccaaatataa tcccaatgtat tgcttttcc ttattataat 1680
ttgataaggat gattataaaa gatacatgga aggaagtggg accagatgca gaagagggaaa 1740
tgcgtggagg acttatggta tcagatacca atatttaaaa gtttgataaa taataaagag 1800
tatgattgtg gttcaaggat aaaaacagac tagagaaaact tattcttagc catcctttat 1860
ttttatcttta tttatctttt gatggagttct tgcactccag cctggtgaca gact 1914